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Randy &/or Brian,

The supplementary meeting with Aboriginal groups was well attended on March 28th. I believe this meeting was a step in the right direction as the Government of Canada and DFO is working to advance reconciliation with Indigenous people and to further a nation-to-nation relationship with Indigenous peoples, based on recognition of rights, respect, cooperation and partnership.

The view around the room was that DFO should protect the Aboriginal right to fish for Mackerel for Food Social and Ceremonial (FSC) and commercial purposes (including Mackerel for bait for FSC Lobster fishery). In addition, it was communicated that the cultural importance of mackerel to Aboriginal communities is significant.

Although few specific management measures were suggested, the group advised that a cautious approach to increase the chances of rebuilding the stock was being sought. It was felt that harvesting at the current level on a stock deep in the critical zone was neither appropriate, nor responsible and threatened Aboriginal rights.

This meeting appeared help improve the relationship between the Department and Aboriginal groups. This relationship, specific to Mackerel, has been fractured due to the belief by Aboriginal groups that their input appeared to be ignored at the last AMAC (including letters that were submitted). In fact, not one mitigation measure for the concerns of the Aboriginal groups was offered in 2014, with the exception of an increase in minimal size.

From a Departmental perspective, there is a great deal riding on this meeting and the input we received. This is also true from a Maritimes Region perspective where we have worked hard to develop relationships with our Aboriginal partners over the years. There is an expectation that the advice we received was not only heard, but understood and will be taken into account when it comes to any decisions on this fishery. Moreover, it was stated more than once that the advice the Department received in that meeting needs to be properly weighted. Again, I believe this meeting advanced the Ministers mandate letter and our Departmental Plan (2017-18) which states that as a top priority he will work with the provinces, territories, Indigenous Peoples, and other stakeholders to better co-manage our three oceans and that reconciliation with Indigenous people is a priority for the Department.

Regards,

Someone

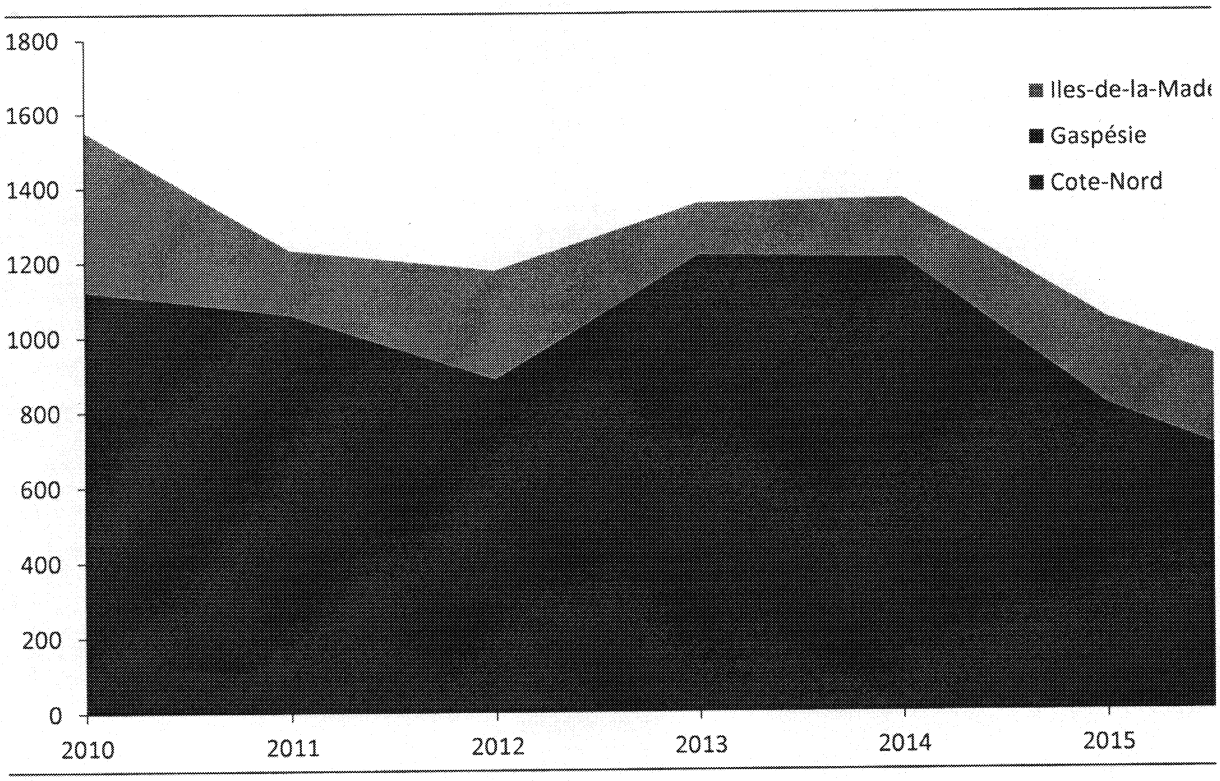
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s.19(1)
s.20(1)(c)

	Cote-Nord	Gaspésie	Iles-de-la-Madeleine	TOTAL
2010	[redacted]			1551.697
2011				1233.282
2012				1177.218
2013				1355.528
2014				1367.392
2015				1045.255
2016				851.93
	127.29029	859.4521429	239.3007143	1226.04314
	10%	70%	20%	100%

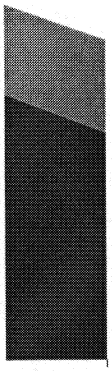
Débarquements totaux (tonnes)

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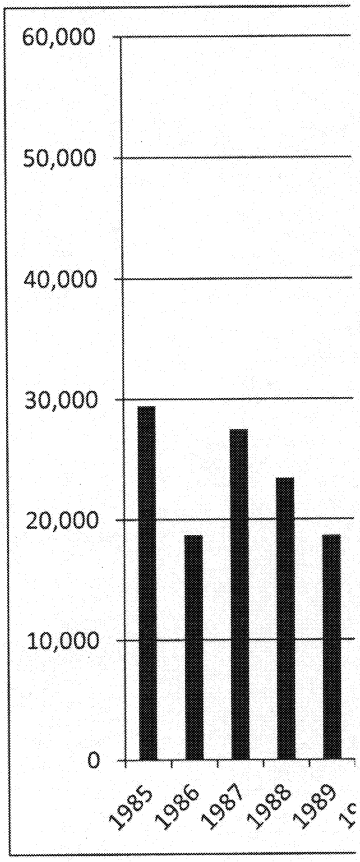
eleine



2016

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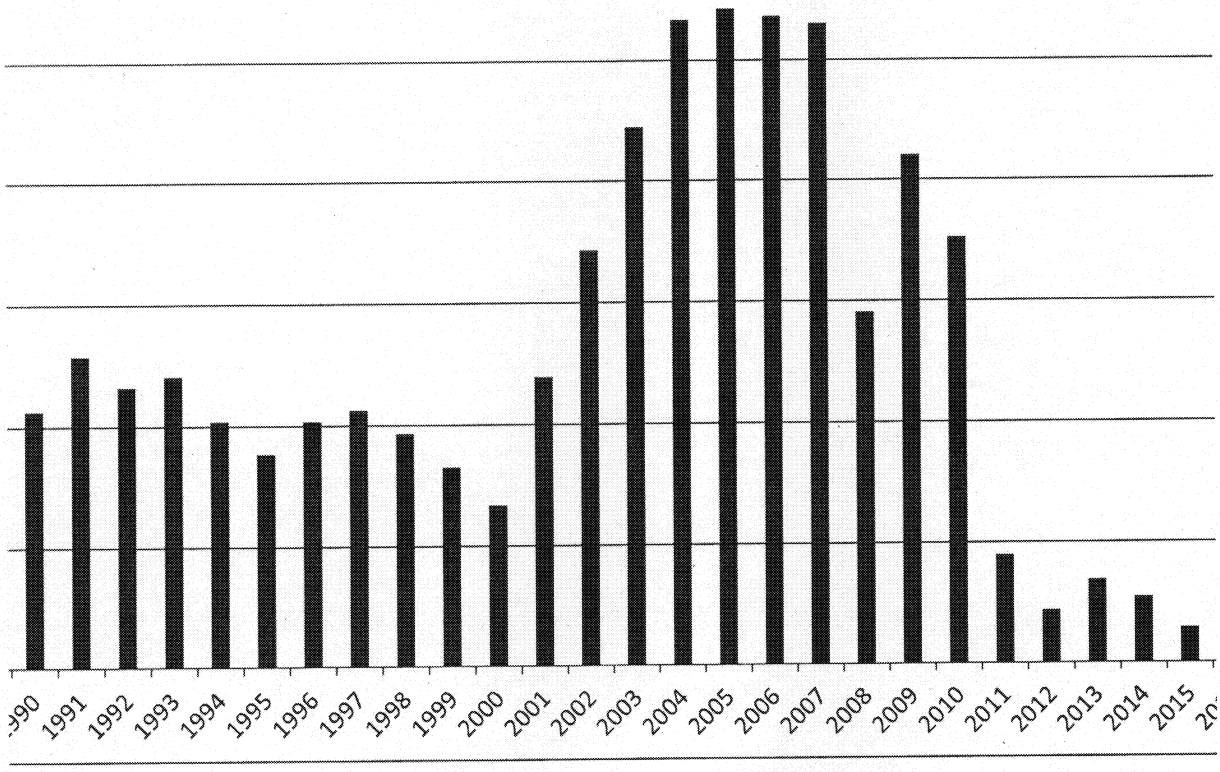
LANDINGS PORTS	1985	1986	1987	1988	1989	1990
NOVA SCOTIA	6,175	4,351	5,237	6,450	5,218	9,182
NEW BRUNSWICK	3,269	3,723	2,789	4,308	3,185	3,614
PRINCE EDWARD ISLAND	2,489	4,943	3,566	2,611	2,775	2,458
QUEBEC	2,179	3,004	2,753	3,662	2,252	1,971
NEWFOUNDLAND	15,339	2,700	13,154	6,399	5,233	4,087
Not known	0	0	0	0	0	0
TOTAL:	**29,452**	**18,721**	**27,499**	**23,431**	**18,663**	**21,312**



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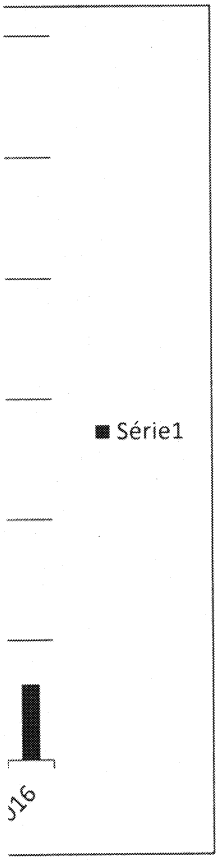
LANDINGS IN T

YEAR						
1991	1992	1993	1994	1995	1996	1997
8,115	8,831	6,512	7,792	6,681	5,517	5,669
2,137	1,748	1,916	1,879	2,206	2,684	1,990
3,922	2,299	4,562	4,441	2,518	4,018	6,693
3,256	3,480	2,971	3,529	3,382	4,317	5,769
8,380	6,915	8,177	2,775	2,919	3,857	1,188
0	0	0	0	0	0	0
25,810	**23,273**	**24,138**	**20,417**	**17,706**	**20,394**	**21,309**



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1998	1999	2000	2001	2002	2003	2004
4,562	4,797	4,546	4,058	3,989	7,187	5,325
1,682	1,373	972	2,199	2,182	1,734	1,398
6,784	3,842	4,134	5,979	6,088	4,543	4,692
4,066	5,104	1,711	2,904	4,095	4,380	1,618
2,149	1,445	2,020	8,810	17,955	26,631	40,333
91	0	0	0	0	0	0
19,334	**16,561**	**13,383**	**23,950**	**34,309**	**44,475**	**53,365**



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2005	2006	2007	2008	2009	2010	2011
4,935	2,579	2,831	1,961	1,442	553	408
1,047	1,517	1,426	748	1,758	0	0
4,946	3,552	2,756	1,497	2,425		
1,035	1,818	1,750	1,863	2,173	1552	1233
42,315	44,183	44,253	23,036	34,260	33137	7342
0	0	0	0	0		
54,279	**53,649**	**53,016**	**29,106**	**42,059**	**35242**	**8984**

	2008	2009
	75000	75000
	1030	1115.815
	0	0
	1755.779	2159.495
	23036	34261
	25821.779	37536.31

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2012	2013	2014	2015	2016	LANDINGS PORTS
692	401	684	1171	1041	NOVA SCOTIA
0	0	0	0	0	NEW BRUNSWICK
					PRINCE EDWARD ISLAND
1177	1356	1367	1045	852	QUEBEC
2541	5170	3432	701	4513	NEWFOUNDLAND
					Not known
4410	**6926**	**5483**	**2916**	**6406**	**TOTAL:**

LANDINGS PORTS

NOVA SCOTIA

NEW BRUNSWICK

PRINCE EDWARD ISLAND

QUEBEC

NEWFOUNDLAND

Not known

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MOYENNE
1985-2016

4,340	
1,671	
3,941	
2,613	
13,292	
4	
24,999	

1985-2016	
	17%
	7%
	16%
	10%
	53%
	0%
	100%

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Species & Division / Espèces et division		Initial Quota / Contingent initial	Quota after adjustments/contingents apres transfers	Maritimes	Gulf / Golfe
MACKEREL / MAQUEREAU	**01/01/02 - 31/12/02**				
3, 4	HISTORICAL FISHERIES (INSHORE) / PÊCHES HISTORIQUES (CÔTIÈRES)	**100,000**		0.000	8,930
MACKEREL / MAQUEREAU	**01/01/03 - 31/12/03**				
3, 4	HISTORICAL FISHERIES (INSHORE) / PÊCHES HISTORIQUES (CÔTIÈRES)				9,727
3, 4	EXPLORATORY QUOTA / CONTINGENT D' EXPLORATION				
MACKEREL / MAQUEREAU	**01/01/04 - 31/12/04**				
3, 4	HISTORICAL FISHERIES (INSHORE) / PÊCHES HISTORIQUES (CÔTIÈRES)	45,000		4,241	7,135
3, 4	EXPLORATORY QUOTA / CONTINGENT D' EXPLORATION	30,000			
ATLANTIC WIDE MACKEREL / MAQUEREAU POUR L'ATLANTIQUE		75,000		4,241	7,135
MACKEREL / MAQUEREAU	**01/01/05 - 31/12/05**				
3, 4	HISTORICAL FISHERIES (INSHORE) / PÊCHES HISTORIQUES (CÔTIÈRES)	45,000		1,878	7,544
3, 4	EXPLORATORY QUOTA -MOBILE GEAR >65' / CONTINGENT D' EXPLORATION	30,000			
ATLANTIC WIDE MACKEREL / MAQUEREAU POUR L'ATLANTIQUE		75,000		1,878	7,544
MACKEREL / MAQUEREAU	**01/01/06 - 31/12/06**				
3, 4	HISTORICAL FISHERIES (INSHORE) / PÊCHES HISTORIQUES (CÔTIÈRES)	45,000			
3, 4	EXPLORATORY QUOTA MG >65' / CONTINGENT D' EXPLORATION	30,000			
4RST	GULF/GOLFE (HERRING SEINERS/SEINEURS HARENG)				
4VWX	SCOTIA/FUNDY FLEET - ALL VESSELS / TOUS BATEAUX			0	
ATLANTIC WIDE MACKEREL / MAQUEREAU POUR L'ATLANTIQUE		75,000		0	0
MACKEREL / MAQUEREAU	**01/01/07 - 31/12/07**				
3, 4	HISTORICAL FISHERIES (INSHORE) / PÊCHES HISTORIQUES (CÔTIÈRES)	45,000			

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3, 4	EXPLORATORY QUOTA MG >65' CONTINGENT D' EXPLORATION	30,000			
4VWX	SCOTIA/FUNDY FLEET - ALL VESSELS / TOUS BATEAUX			2,341	
ATLANTIC WIDE MACKEREL / MAQUEREAU POUI		75,000	0	2,341	0

MACKEREL / MAQUEREAU

01/01/08 - 31/12/08

3, 4	HISTORICAL FISHERIES (INSHORE) PÊCHES HISTORIQUES (CÔTIÈRES)	45,000	45,000	1,030	
3, 4	EXPLORATORY QUOTA MG >65' CONTINGENT D' EXPLORATION	30,000	30,000		
ATLANTIC WIDE MACKEREL / MAQUEREAU POUI		75,000	75,000	1,030	0

MACKEREL / MAQUEREAU

01/01/09 - 31/12/09

3, 4	HISTORICAL FISHERIES (INSHORE) PÊCHES HISTORIQUES (CÔTIÈRES)	45,000	45,000	1,116	
3, 4	EXPLORATORY QUOTA MG >65' CONTINGENT D' EXPLORATION	30,000	30,000		
ATLANTIC WIDE MACKEREL / MAQUEREAU POUI		75,000	75,000	1,116	0

MACKEREL / MAQUEREAU

01/01/10 - 31/12/10

3, 4	HISTORICAL FISHERIES (INSHORE) PÊCHES HISTORIQUES (CÔTIÈRES)	36,000.000	36,000.000	553.287	
3, 4	EXPLORATORY QUOTA MG >65' CONTINGENT D' EXPLORATION	24,000.000	24,000.000		
ATLANTIC WIDE MACKEREL / MAQUEREAU POUI		60,000.000	60,000.000	553.287	0.000

MACKEREL / MAQUEREAU

01/01/11 - 31/12/11

3, 4	HISTORICAL FISHERIES (INSHORE) PÊCHES HISTORIQUES (CÔTIÈRES)	60,000.000	36,000.000	408.407	
3, 4	EXPLORATORY QUOTA MG >65' CONTINGENT D' EXPLORATION		24,000.000		
ATLANTIC WIDE MACKEREL / MAQUEREAU POUI		60,000.000	60,000.000	408.407	0.000

MACKEREL / MAQUEREAU

01/01/12 - 31/12/12

3, 4	HISTORICAL FISHERIES (INSHORE) PÊCHES HISTORIQUES (CÔTIÈRES)	21,600.000	21,600.000	691.678	
3, 4	EXPLORATORY QUOTA MG >65' CONTINGENT D' EXPLORATION	14,400.000	14,400.000		

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ATLANTIC WIDE MACKEREL / MAQUEREAU POUI		36,000.000	36,000.000	691.678	0.000

MACKEREL / MAQUEREAU					
	01/01/13 - 31/12/13				
3, 4	HISTORICAL FISHERIES (INSHORE) PÊCHES HISTORIQUES (CÔTIÈRES)	21,600.000	21,600.000	400.790	
3, 4	EXPLORATORY QUOTA MG >65' CONTINGENT D' EXPLORATION	14,400.000	14,400.000		
ATLANTIC WIDE MACKEREL / MAQUEREAU POUI		36,000.000	36,000.000	400.790	0.000

ATLANTIC WIDE MACKEREL / MAQUEREAU POUR L'ATLANTIQUE					
3, 4	**01/01/14 - 31/12/14**				
	HISTORICAL FISHERIES (INSHORE) PÊCHES HISTORIQUES (CÔTIÈRES)	6,000.000	6,000.000	684.053	
	EXPLORATORY QUOTA MG >65' CONTINGENT D' EXPLORATION	4,000.000	4,000.000		
ATLANTIC WIDE MACKEREL / MAQUEREAU POUR L'A		**10,000.000**	**10,000.000**	**684.053**	**0.000**

ATLANTIC WIDE MACKEREL / MAQUEREAU POUR L'ATLANTIQUE					
3, 4	**01/01/15 - 31/12/15**				
	HISTORICAL FISHERIES (INSHORE) PÊCHES HISTORIQUES (CÔTIÈRES)	4,800.000	4,800.000	1,170.621	
	EXPLORATORY QUOTA MG >65' CONTINGENT D' EXPLORATION	3,200.000	3,200.000		
ATLANTIC WIDE MACKEREL / MAQUEREAU POUR L'A		**8,000.000**	**8,000.000**	**1,170.621**	**0.000**

ATLANTIC WIDE MACKEREL / MAQUEREAU POUR L'ATLANTIQUE					
3, 4	**01/01/16 - 31/12/16**				
	HISTORICAL FISHERIES (INSHORE) PÊCHES HISTORIQUES (CÔTIÈRES)		0.000	1,040.786	
	EXPLORATORY QUOTA MG >65' CONTINGENT D' EXPLORATION		0.000	0.000	
ATLANTIC WIDE MACKEREL / MAQUEREAU POUR L'A		**0.000**	**0.000**	**1,040.786**	**0.000**

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Quebec / Québec	NL/T-N&L	Cental & Arctic	TOTAL	%	Amount remaining Quantité restante	**Closure date Date de fermeture**
2,903	8,991		20,824	21%	79,176	
4,380	26,675		40,782	-	-	**31/12/2003**
			0	-	-	
1,618	40,385		53,379	119%	-8,379	
			0	0%	30,000	
1,618	40,385	0	53,379	71%	21,621	
1,035	37,335		47,792	106%	-2,792	
	5,065		5,065	17%	24,935	
1,035	42,400	0	52,857	70%	22,143	
1,818	38,441		40,259	89%	4,741	**Dec. 31, 2006**
	5,742		5,742	19%	24,258	**Dec. 31, 2006**
			0	-	-	**Dec. 31, 2006**
			0	-	-	
1,818	44,183	0	46,001	61%	28,999	
1,098	35,898		36,996	-	-	**December 31,2007**

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	8,686		8,686	-	-	**December 31,2007**
			2,341	-	-	
1,098	44,584	0	48,023	-	-	
1,756	17,858		20,644	46%	24,356	
	5,178		5,178	17%	24,822	
1,756	23,036	0	25,822	34%	49,178	
2,159	25,251		28,526	63%	16,474	
	9,010		9,010	30%	20,990	
2,159	34,261	0	37,536	50%	37,464	
1,551.697	25,501.000		27,605.984	77%	8,394.016	
	7,636.000		7,636.000	32%	16,364.000	
1,551.697	33,137.000	0.000	35,241.984	59%	24,758.016	
1233.304	5,824.000		7,465.711	21%	28,534.289	
	1,518.000		1,518.000	6%	22,482.000	
1233.304	7,342.000	0.000	8,983.711	15%	51,016.289	
1177.218	1,934.000		3,802.896	18%	17,797.104	
	607.000		607.000	4%	13,793.000	

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1177.218	2,541.000	0.000	4,409.896	12%	31,590.104

1,355.529	3,295.000		5,051.319	23%	16,548.681
	1,875.000		1,875.000	13%	12,525.000
1,355.529	5,170.000	0.000	6,926.319	19%	29,073.681

1367.392	2,612.000		4,663.445	78%	1,336.555
	820.000		820.000	21%	3,180.000
1367.392	**3,432.000**	**0.000**	**5,483.445**	**55%**	**4,516.555**

1045.255	700.571		2,916.447	61%	1,883.553
			0.000	0%	3,200.000
1045.255	**700.571**	**0.000**	**2,916.447**	**36%**	**5,083.553**

851.862	4,402.061		6,294.709	-	-
	111.023		111.023	-	-
851.862	**4,513.084**	**0.000**	**6,405.732**	**-**	**-**

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Année (CAQR)	Initial Quota / Contingent initial	Quota after adjustments/contingents apres transfers	Maritimes	Gulf / Golfe
2002	100000		0	8930
2003				9727
2004	75000		4241	7135
2005	75000		1878	7544
2006	75000		0	0
2007	75000	0	2341	0
2008	75000	75000	1030	0
2009	75000	75000	1116	0
2010	60000	60000	553	0
2011	60000	60000	408	0
2012	36000	36000	692	0
2013	36000	36000	401	0
2014	10000	10000	684	0
2015	8000	8000	1171	0
2016	0	0	1041	0
1985-2016			1111	2222
			4%	8%

	NOVA SCOTIA	Gulf (NB+NS)
1985 ZIFF	6175	5758
1986 ZIFF	4351	8666
1987 ZIFF	5237	6354
1988 ZIFF	6450	6919
1989 ZIFF	5218	5959
1990 ZIFF	9182	6072
1991 ZIFF	8115	6059
1992 ZIFF	8831	4048
1993 ZIFF	6512	6478
1994 ZIFF	7792	6320
1995 ZIFF	6681	4724
1996 ZIFF	5517	6702

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	1997 ZIFF	5669	8683
	1998 ZIFF	4562	8466
	1999 ZIFF	4797	5215
	2000 ZIFF	4546	5106
	2001 ZIFF	4058	8178
	2002 ZIFF	3989	8270
	2003 ZIFF	7187	6277
	2004 ZIFF	5325	6089
	2005 ZIFF	4935	5993
	2006 ZIFF	2579	5069
	2007 ZIFF	2831	4182
	2008 ZIFF	1961	2245
	2009 ZIFF	1442	4183
	2010 CAQR	553	0
	2011 CAQR	408	0
	2012 CAQR	692	0
	2013 CAQR	401	0
	2014 CAQR	684	0
	2015 CAQR	1171	0
	2016 CAQR	1041	0
1985-2016		4340	4751
1985-2001		6100	6453
2000-2016		2577	3270

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Quebec / Québec	NL/T-N&L	Cental & Arctic	TOTAL	%	Amount remaining Quantité restante	Closure date Date de fermeture
2903	8991		20824	21%	79176	
4380	26675		40782	-	-	31/12/2003
1618	40385	0	53379	71%	21621	
1035	42400	0	52857	70%	22143	
1818	44183	0	46001	61%	28999	
1098	44584	0	48023	-	-	
1756	23036	0	25822	34%	49178	
2159	34261	0	37536	50%	37464	
1552	33137	0	35242	59%	24758	
1233	7342	0	8984	15%	51016	
1177	2541	0	4410	12%	31590	
1356	5170	0	6926	19%	29074	
1367	3432	0	5483	55%	4517	
1045	701	0	2916	36%	5084	
852	4513	0	6406	-	-	
1690	21423	0	26373			
6%	81%	0%				

QUEBEC	NEWFOUND LAND	Not known	TOTAL:	NEW BRUNSWICK	PRINCE EDWARD ISLAND
2179	15339	0	29452	3269.31	2489.13
3004	2700	0	18721	3723.14	4942.95
2753	13154	0	27499	2788.75	3565.54
3662	6399	0	23431	4308.46	2610.69
2252	5233	0	18663	3184.57	2774.64
1971	4087	0	21312	3614.27	2457.9
3256	8380	0	25810	2136.91	3922.45
3480	6915	0	23273	1748.42	2299.17
2971	8177	0	24138	1915.87	4562.12
3529	2775	0	20417	1879.29	4440.98
3382	2919	0	17706	2205.69	2518.17
4317	3857	0	20394	2684.38	4018.07

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5769	1188	0	21309	1989.89	6692.82
4066	2149	91	19334	1682.46	6783.87
5104	1445	0	16561	1372.88	3842.4
1711	2020	0	13383	971.72	4134.09
2904	8810	0	23950	2199.19	5978.97
4095	17955	0	34309	2182.49	6087.96
4380	26631	0	44475	1734.23	4542.56
1618	40333	0	53365	1397.76	4691.59
1035	42315	0	54279	1046.93	4946.47
1818	44183	0	53649	1517.1	3552.24
1750	44253	0	53016	1425.85	2756.46
1863	23036	0	29106	748.41	1497.05
2173	34260	0	42059	1758.35	2425.08
1552	33137		35242	0	
1233	7342		8984	0	
1177	2541		4410	0	
1356	5170		6926	0	
1367	3432		5483	0	
1045	701		2916	0	
852	4513		6406	0	
2613	13292				
3312	5620				
1878	20037				

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Pêches et Océans Canada | Fisheries and Oceans Canada

CONDITIONS DE PERMIS 2017

MAQUEREAU – PÊCHE CONCURENTIELLE – FILET MAILLANT, DISPOSITIF MÉCANIQUE ET LIGNE À MAIN – ZONE 16

~~FLOTTILLE DE BATEAUX (MESURE DE GESTION)~~

Commentaire [D1]: J'ai inversé l'ordre vu que ceux qui n'ont pas le filet maillant peuvent avoir dispositif mécanique et ligne à main, ça me semble donc plus logique de les coller ensemble. Il y a deux types de permis, ceux qui ont les 3 et ceux qui ont seulement dispositif et ligne à main.

En vertu du paragraphe 22(1) du *Règlement de pêche (dispositions générales)*, les conditions de permis suivantes s'appliquent :

1. IDENTIFICATION

TITULAIRE DU PERMIS:	«NOM_INTERVE»	NIP :	«NIP_INTERVE»
NOM DU BATEAU DE PÊCHE :	«NOM_NBPC»	NEB :	«NBPC»
		LHT :	«LHT_BPC»

2. APPLICATION

(1) Ces conditions de permis font partie du permis de pêche commerciale du titulaire du permis/exploitant du bateau de pêche et doivent y être jointes.

(2) Les présentes conditions de permis annulent et remplacent toutes les autres conditions de permis délivrées antérieurement au présent titulaire du permis/exploitant du bateau de pêche pour la pêche de l'espèce précisée à l'article 3.

(3) Lorsque le titulaire du permis/exploitant pêche en vertu des présentes conditions de permis, il n'est pas autorisé à pêcher toute autre espèce de poisson pélagiques en vertu d'autres conditions de permis.

Mis en forme : Gauche

(4) Lorsque des activités de pêche sont menées en vertu des présentes conditions de permis, aucune personne se trouvant à bord du bateau de pêche identifié à l'article 1 ne peut participer à quelque activité de pêche récréative que ce soit.

Commentaire [AR2]: Ajouter pour régler la problématique de pêche simultanée avec le Hareng d'automne

Mis en forme : Non Surlignage

3. ESPÈCE AUTORISÉE

Maquereau

4. ZONE DE PÊCHE

(1) Sous réserve d'une ordonnance de modification, le titulaire du permis/exploitant du bateau de pêche est autorisé à pêcher dans la zone 16 de pêche du maquereau telle que définie dans le *Règlement de pêche de l'Atlantique de 1985*.

(2) Malgré le paragraphe (1), il est interdit de pêcher dans :

a) les sites aquacoles situés en front de Havre-aux-Maisons délimités par les lignes droites reliant les points suivants dans l'ordre où ils sont énumérés :

(i)	47° 22' 10.32" N	61° 45' 14.28" O
(ii)	47° 21' 52.62" N	61° 43' 54.66" O
(iii)	47° 21' 11.22" N	61° 44' 16.44" O
(iv)	47° 21' 29.22" N	61° 45' 35.70" O
(v)	47° 22' 10.32" N	61° 45' 14.28" O

b) les sites aquacoles situés à l'ouest de la Newhall délimités par les lignes droites reliant les points suivants dans l'ordre où ils sont énumérés :

(i)	47° 24' 42.00" N	61° 34' 00.00" O
(ii)	47° 24' 42.00" N	61° 32' 30.00" O
(iii)	47° 22' 48.00" N	61° 32' 30.00" O
(iv)	47° 22' 48.00" N	61° 34' 00.00" O
(v)	47° 24' 42.00" N	61° 34' 00.00" O

5. ENGINS DE PÊCHE AUTORISÉS

(1) Les définitions qui suivent s'appliquent à la présente partie :

a) Ligne à main : ligne simple à laquelle un ou plusieurs hameçons sont attachés et qui est manœuvrée à la main, ou qui est attachée à une canne simple ou à un moulinet qui est opéré à la main ou surveillée de près mais n'inclut pas un dispositif mécanique.

b) Dispositif mécanique : mécanisme auquel est attaché des lignes simples avec un maximum de

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200 hameçons simples pour l'ensemble des dispositifs mécaniques, mais n'inclut pas une ligne à main.

(2) Dispositif mécanique, filet maillant et ligne à main

a) Le titulaire du permis/exploitant du bateau de pêche ne peut pas utiliser pour la pêche ou avoir à bord du bateau de pêche plus d'engins de pêche que le nombre maximal autorisé :
   (i) dans le permis en vertu duquel les présentes conditions de permis sont délivrées pour ce qui est des filets maillants;
   (ii) dans les présentes conditions de permis pour ce qui est des dispositifs mécaniques et des lignes à main.

b) Le titulaire du permis/exploitant du bateau de pêche est autorisé à utiliser pour la pêche, avoir en sa possession ou avoir à bord de son bateau de pêche, lors d'une même expédition de pêche l'un des engins ou l'une des combinaison d'engins suivantes :
   (i) des filets maillants dont la longueur maximale de chaque filet n'excède pas 91,44 m; ou
   (ii) un maximum de 6 lignes à main; ou
   (iii) un maximum de 1 ligne à main et des dispositifs mécaniques.

Commentaire [D3]: J'ai modifié un peu car si on veut suivre le gabarit, le nombre de filets (600 brasses) est indiqué sur le permis du pêcheur, alors que le nombre de lignes à main et dispositifs ne le sont pas.

6. APPEL DE SORTIE EN MER

Aucune mesure n'est requise concernant l'appel de sortie en mer en vertu des présentes conditions de permis.

7. OBSERVATEUR(S) EN MER

Aucune mesure supplémentaire n'est requise concernant les observateurs en mer en vertu des présentes conditions de permis. Toutefois, dans l'éventualité où un observateur en mer est attitré au titulaire du permis/exploitant du bateau de pêche, celui-ci est tenu de respecter la réglementation en vigueur prévue à l'article 46 du *Règlement de pêche (dispositions générales)*.

8. APPEL D'ENTRÉE

(1) Avant le début d'une expédition de pêche, le titulaire du permis/exploitant du bateau de pêche doit avoir conclu avec une compagnie de vérification à quai légalement désignée par Pêches et Océans Canada une entente relative à l'appel d'entrée en vertu des présentes conditions de permis.

(2) L'information suivante doit être communiquée par un appel à une compagnie de vérification à quai légalement désignée par Pêches et Océans Canada au moins 1 heure avant l'heure prévue de l'arrivée au port :
   a) le nom du bateau de pêche;
   b) le NEB;
   c) le port et le site de débarquement;
   d) la zone de pêche;
   e) la date et l'heure prévues d'arrivée au port;
   f) les quantités estimées en poids rond de poisson conservées à bord du bateau de pêche, pour chaque espèce, telles qu'elles ont été inscrites dans la section Journal de bord du Formulaire combiné du titulaire du permis/exploitant du bateau de pêche, lesquelles doivent correspondre le plus précisément possible aux quantités de poisson qui seront réellement débarquées;
   g) le numéro séquentiel du Formulaire combiné utilisé lors de l'expédition de pêche.

(3) Le titulaire du permis/exploitant du bateau de pêche doit obtenir son numéro de confirmation d'appel d'entrée auprès de la compagnie de vérification à quai.

(4) Le titulaire du permis/exploitant du bateau de pêche doit convenir de la date et de l'heure prévues du débarquement avec la compagnie de vérification à quai au moins 3 heures avant l'heure prévue du débarquement. Cette période peut être plus courte si une entente a été prise avec cette même compagnie.

(5) Le titulaire du permis/exploitant du bateau de pêche doit inscrire son numéro de confirmation d'appel d'entrée reçu de la compagnie de vérification à quai, pour un débarquement, dans son Formulaire combiné.

(6) Lors d'une expédition de pêche, le titulaire du permis/exploitant du bateau de pêche qui entre au port pour des raisons autres qu'un débarquement de poisson doit communiquer l'information suivante, lorsqu'en mer, par un appel au Centre des opérations du Programme de certification des captures au 1-888-641-6464 :
   a) le nom du bateau de pêche;
   b) le NEB;
   c) l'espèce visée;
   d) la zone de pêche;
   e) les quantités estimées en poids rond de poisson par espèce qui ont été conservées à bord du bateau de pêche;
   f) la date et l'heure estimées d'arrivée au port;
   g) le nom du port;
   h) la raison d'entrée au port.

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9. VÉRIFICATION À QUAI

(1) Les exigences de la vérification à quai diffèrent d'une région à l'autre. Le titulaire du permis/exploitant du bateau de pêche qui débarque ses prises à un port situé à l'extérieur de sa région d'origine doit obtenir auprès d'un bureau de Pêches et Océans Canada les conditions qui s'appliquent aux zones de pêche en question et les respecter.

(2) Aucune mesure supplémentaire n'est requise concernant la vérification à quai en vertu des présentes conditions de permis. Toutefois, le titulaire du permis/exploitant du bateau de pêche est tenu de respecter la réglementation en vigueur prévue à l'article 47 du *Règlement de pêche (dispositions générales)*.

10. FORMULAIRE COMBINÉ

(1) Le titulaire du permis/exploitant du bateau de pêche doit se procurer son livret de Formulaires combinés FC-EP-01 (Journal de bord/Récépissé d'achat) ou FC-EP-02 (Journal de bord/Récépissé d'achat/Sommaire de la pesée) auprès d'un Fournisseur préqualifié identifié par Pêches et Océans Canada.

(2) Lorsqu'il pêche, le titulaire du permis/exploitant du bateau de pêche doit :
- a) tenir à jour un registre véridique de ses activités de pêche et de ses prises dans la section Journal de bord.
- b) compléter la section Journal de bord avant d'arriver dans un port :
  - (i) conformément aux instructions spécifiées dans son livret de Formulaires combinés;
  - (ii) dans l'ordre séquentiel; et
  - (iii) à chaque jour de pêche.

(3) Le Formulaire combiné doit être signé par le titulaire du permis/exploitant du bateau de pêche et le représentant de l'acheteur.

(4) Le titulaire du permis/exploitant du bateau de pêche a l'obligation d'acheminer, sans exception, son Formulaire combiné rempli de façon véridique et conformément au paragraphe (2) au bureau de Pêches et Océans Canada de son secteur dans les délais suivants :
- a) dans les 7 jours suivant le débarquement lorsqu'il débarque dans la région du Québec; ou
- b) dans les 10 jours suivant le débarquement lorsqu'il débarque dans une région autre que celle du Québec.

(5) Le titulaire du permis/exploitant du bateau de pêche doit conserver sa copie du Formulaire combiné dans son livret de Formulaires combinés, dans l'ordre séquentiel.

11. SYSTÈME DE SURVEILLANCE DES NAVIRES (SSN)

Aucune mesure n'est requise concernant l'utilisation du SSN en vertu des présentes conditions de permis.

12. PRISES ACCIDENTELLES

Sauf expressément autorisée en vertu de la réglementation ou des présentes conditions de permis, la garde des prises accidentelles est interdite. Conséquemment, le titulaire du permis/exploitant du bateau de pêche qui prend un poisson fortuitement doit le remettre sur-le-champ :

(1) dans l'eau où il l'a pris; et

(2) de manière à le blesser le moins possible s'il est encore vivant.

13. AUTRES CONDITIONS

(1) Assistance à l'embarquement et au débarquement
Lorsqu'un agent des pêches, un garde-pêche ou un observateur en mer désigné sous le paragraphe 39(1) du *Règlement de pêche (dispositions générales)* doit monter ou descendre plus de 1,2 m pour monter à bord du bateau de pêche ou en débarquer, le titulaire du permis/exploitant du bateau de pêche doit fournir à l'agent des pêches, au garde-pêche ou à l'observateur en mer une échelle de pilote ou tout autre dispositif aussi sûr et commode pour accéder au bateau de pêche et en descendre.

~~(2) Lorsque des activités de pêche sont menées en vertu des présentes conditions de permis, aucune personne se trouvant à bord du bateau de pêche identifié à l'article 1 ne peut participer à quelque activité de pêche récréative que ce soit.~~

14. PÉRIODE DE VALIDITÉ

DU : «DATE_VIGUEUR» AU : «DATE_EXPIRATION»

Commentaire [D5]: Il faut ajouter ce texte car nous aurons des pêcheurs qui débarqueront hors Québec où il pourrait y avoir du PVQ si la région du golfe va de l'avant.

Commentaire [AR6]: Je suis d'accord mais j'inverserai l'ordre entrre le (1) et le (2)

Commentaire [D7]: N'avait pas été modifié

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7. Gestion de la pêche du maquereau en lien avec l'écocertification du homard (RPPSG)

Lea population de maquereau bleu de l'Atlantique Nord-Ouest possède une aire de répartition qui s'étend de la Caroline du Nord au Labrador. Les analyses génétiques révèlent que cette population ne correspond qu'à un seul et unique stock avec deux composantes reproductrices : La composante canadienne et la composante américaines. ~~est une source d'alimentation importante pour les mammifères marins, les grands poissons pélagiques, les oiseaux et d'autres espèces. Il n'y a qu'un seul stock de maquereau au Canada.~~ Entre 1960 et 2010, le maquereau de l'Atlantique était abondant dans l'est du Canada et le TAC n'était jamais atteint. Au cours des dernières années, les débarquements de maquereau dans l'Atlantique Nord-Ouest se sont effondrés et le prix a augmenté à plus de 2 $ / kg. Le maquereau est utilisé comme appât pour la pêche au crabe des neiges et au homard.

Une grande partie de la récolte de tout l'est du Canada n'est pas rapporté, soit les prises ~~déclarées~~ utilisées comme appât ~~à~~ pour usage personnel, les ventes d'appât ~~légales mais non déclarées d'un~~ de pêcheur à un autre, les prises de la pêche récréative et le braconnage. Cela crée un problème maieur affectant la qualité et la crédibilité de l'évaluation des stocks [redacted]

Pour maintenir leur certification du Marine Stewardship Council (MSC), les pêcheurs de homard doivent identifier d'autres sources d'appât que le maquereau de l'Atlantique si cette espèce ne se rétablit pas. Depuis ~~2010~~2009, les journaux de bord pour le maquereau de l'Atlantique sont obligatoires pour les flottilles du Québec, mais ce n'est pas le cas dans toutes les provinces de l'Atlantique. Un projet pilote visant à ~~évaluer la conformité~~à améliorer la déclaration des captures a été mis en place pour en 2015 et 2016 pour la flottille~~e~~ québécoise de la ~~(~~zone 16~~)~~ et exigeait des pêcheurs un appel d'entrée afin d'améliorer le suivi des captures. Cette mesure de gestion devrait normalement être reconduite en 2017.

Le RPPSG pourrait faire part de ses préoccupations concernant les captures non déclarées de maquereau de l'Atlantique. C'est un problème pour les pêcheurs de homard qui souhaitent maintenir leur certification MSC. Le RPPSG pourrait également critiquer l'approche du MPO en matière de gestion du maquereau en général, l'incohérence des mesures de gestion à l'échelle de l'Atlantique, la nécessité de mieux recueillir l'information concernant les captures non déclarées et l'impact sur la viabilité économique des pêcheurs de homard qui pourraient perdre leur certification MSC. Le RPPSG pourrait également se plaindre du prix croissant de l'appât au cours des dernières années.

Objectifs du Ministre

Reconnaître la contribution des membres de l'industrie de la pêche du Québec en ce qui a trait à l'amélioration du suivi des captures de maquereau de l'Atlantique.

Rassurer les intervenants à l'effet que le Ministère est au courant de la situation et qu'il a commencé à identifier des solutions.

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Messages clés

- À la suite de la réunion du comité consultatif du maquereau Atlantique (AMAC), qui s'est tenu le 30 mars 2017 un groupe de trail MPO-Industrie a été mis sur pied afin de proposer un plan de rétablissement pour le stock de maquereau Canadien. Un membre du RPPSG siège sur ce comité. Le mandat de ce comité sera précisé ulterieurement. Les différents besoins en terme de mesures de gestion, de recherche scientifique et de contrôle de l'effort de pêche seront certainement évalués.
- Un groupe de travail ministériel a été mandaté d'examiner les mesures de gestion de la pêche au maquereau en place partout dans l'est du Canada pour améliorer le suivi des captures en 2017, incluant l'évaluation de la faisabilité de mettre en place un journal de bord.

Commentaire [ED2]: Quelle est la mise à jour?

- Les scientifiques du Canada et des États-Unis travaillent de concert dans le but ~~d'élaborer des~~d'améliorer le processus d'évaluation des stocks en considréant d'avantage les intéractions entre les deux composantes reproductrices ~~outils pour mieux évaluer les prises de maquereau non-déclarées afin d'améliorer le modèle d'évaluation du stock~~.

- Le MPO continue de travailler avec les représentants du Comité consultatif du maquereau de l'Atlantique concernant l'enjeu des prises non-déclarées, incluant la pêche récréative.

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s.19(1)

AMAC Notes

Vote on permitting rec fishery to sit at table

Opposed:

Support (NL)

[redacted] would like to know about rec structure

[redacted] (FFAW): decline need more discussion among partipants.

Keep as an observer.

Vote on having individual present as an opserver

Gulf ns planning board: as long as he understands it is his personal view

[redacted] – must agree to 10 mins

Support for a short presentation

[redacted] Will be have an update with the U.S. fishery on collaboration

Brian: we have a science working relationship at this point.

MCT

Mandate letter

- Presentation from DFO

[redacted] feels timelines are more than optimistic. Consultative process and comment input are aggressive.

[redacted] concerned about govt creating a greater regulatory environment. Not only this but others such a TC regulations, etc. Industry gets lot is agenda is expanded.

[redacted] ecology action center supports. Not just a domestic but an international target

Science:

Slide 3: contracting age structure

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Leaving out undeclared in old model did not properly take into account productivity of the stock.

5: Mack in Canadian waters, sub area three in 4.

9: 2500t were taken in 3k

11: 99 last major recruitment abundance. Older fish has been decreasing since 2000. In 2016 age structure is more even

13: a lot of variation in regions among age structure.

4R stongetst signal of 1 year old fish. 3k mostly older and bigger fish.

Main index of abundance is egg survey, we have to wait for these young fish to be 2 years old before they start spawning.

Have information on temp when eggs were collected, biological sampling. Can determine when peak spawning has occurred. Sometimes we were too early or too late and did not use the sample.

Fecudity was also examined

Factors used to calculate abundance....

Egg index increasing slowly but steadily since 2012.

Efforts to find other spawning site. Expanded to white bay and notre dam bay. No sign of spawning activity was found, not a single egg.

Undeclared catches: review of available data on bait needs for recreational fisheries.

Online survery in 2016

Bail used for lobster, tuna and snow crab.

We tell the model declared landing; however there is a certain amount o f additional landings. If we have a big drop in abundance index and landings do not explain it, the model can explain this. Will output number for undeclared.

Model estimates high biomass than the previous one because we an using total removals. Declared plus undeclared.

Science Q&A:

[redacted] is growth that the model showing a good projection of 2015.

Thomas: we should start to see it in 2018, average recruitment of last two years shows up 2 years into the future. This current increase is without strong requitment

[redacted] (Gaspsie): saw catches underage. Are we going year by year to adjust situation?

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Thomas: bythe time we get the samples in the lab and do analysis there likely would not be time to do an interim assessment.

Harvester: How do you know

Thomas: Samples to interpret spawning data are collected based on samples in june. We do not get them until later in the year.

[redacted] Small fish look at it at night time. See a lot of small fish. Doesn't jive with the science.

Thomas: We don't see the small fish in data, We have to wait until they are bigger and caught. Then we have to see in the egg index. In 4r we did see a strong signal of small fish. Big fish were also landed in big numbers. What age?

Thomas: once is reaches a certain size age is harder to determine based on length. We see the proportion of fish that has increased in recent years.

[redacted] seeing fish on west coast. Amount of effort required my science is huge. Believes that science only scratching the surface. Sees a larger size mackerel almost continually. Fishers see this but science is not.

Thomas: this is the proportion of size we have seen in all catches. A large proportion of catch came form 3k where we see larger fish. We have very good sampling coming from NL. Not sure what to tell you. Samples are done directly at the dock.

[redacted] what is is the European concentration of fish. They have large stock.

Martin: likely smaller composition of smaller fish but not sure why there stock is so big. Good recruitment and age classes.

[redacted] slide 10. Are you saying the current mim is not protecting 50SOM.

Thomas: no we are saying current limit is close to 50SOM.

[redacted] how do you weight your samples

Thomas: it is weighted on catch.

Other research, calculating volume and temperature around spawning. Post doc hired. Further studies coming. To better understand recruitment, possible with higher biomass there is a high probability that these eggs will meet the right temperature. Will be included in later science advice. Two year funding, hoping for next assessment.

One conclusion that temperature is important but availability of food is very important. Importance of plankton. Temperature will not give you the whole story.

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[redacted]: slide 24, declared vs undeclared. NB 97 declared and 3 percent undeclared.

Thomas slide 21 shows sector activity and where undeclared is coming from.

NI participant: See feel there is a large gap of information missing. Respect what has been done. Feels like we are in right direction but volumes of fish is not fully accounted by science.

Thomas: until last year. The TAC was never limiting. The trajectory represented the trends in abundance estimates. There was more disconnect this year due do the TAC being caught for the first time.

[redacted] unreported landing affected productivity. With landing caught in a short time, we see a lot of mackerel where we don't normally see it. Could be temp changes food and temp. Last year, they were back in shore. Trend going down until last years. It is arbitrarily stopped/closed (TAC) so we don't see the changes. We see changes in other fisheries due to temperature based sites.

Thomas: is true that number of landings would have impact on model. It does not take into account effort. The fact that TAC was caught last years should not have an impact on the model. Especially when we project for next two years. We assume recruitment is average of last 5 years. The egg index gives us an idea of total productivity.

[redacted] slide 6. Seeing a westward movement of mackerel.

Thomas: an new population stocks found would have to be included in the model.

[redacted]: what were total landings last year

Thomas: model is estimating 8000 plus 6000. 14,000 for total catches. Undeclared was done by review of bait needs, survey. This is how the model can best estimate what is happening. It was able to explain how cohurt disappearded so quickly.

[redacted] do we see something similar in the states.

Thimas: common is pelagic you can get strong recruitment with low biomass. Youincrease your chance of recruitment is high biomass.

[redacted] just after caplin pass is when mackerel show up. When you get the mackerel in june it is full of spawn. Effort last year, a lot of boats did not get a chance. It was almost two months that the fish were around. Mackerel can come in big numbers and then leave.

Thomas: mackerel is schooling and migratory which creates a lot of challenges. Egg index is a good representation of what is available to be fished.

Martin: there is also no evidence that mackerel may have moved to Greenland or Iceland. TAC has never been limiting in this fishery until last years. Population size explains when catches have gone down not TAC.

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NL: fish on white bay and ?. fish look different. Obvious difference. East side fish are shorter and chuckier. West side fish are longer and more slender. In terms of Canadian mackerel going to US we were not concerned. They are not catching the large fish. Believed that it is not all one stock. Fish off coast of NL is not seen in US catch.

Martin: very interesting. Diffenct bt 3k and 4r. Did not realize that this is something you have always seen. We are doing genic study. 3k and 4r are included. Stay tuned for results.

Thomas: would not be surprised to see some regional difference. 3k very variable. Sometimes there are fish sometimes there are not.

[redacted] with repect to size 3k and 3l, 2010 was a less productive year. Fish showed up since there by they are all small. How do you go from 100 percent small fish to 100 % big fish. TAC was not limiting, fish were smaller or were not there. Mack on n/e coast. We are dealing with a fish, when they show up, they show up. 2600t were caught quickly. In the past this would have been caught in one night. Have pictures of mackerel when there was snow on the hills. They were around that long. By the time we sort out building quota we wont have any more quota. TAC is limiting.

Thomas: if population rebuilding we don't see us a situation where the fish will not be available. 3k is very variable. Glad to see some fish in every second year.

Question: are surveys done the same spot and same time of year. With climate change we don't catch fish in areas where we used to. Hit and miss. Is it reality of what is in the water.

Thomas: thanks to biological samples we change anticipate spawning. There has not been a lot of variation over time. Southern gulf, good idea of what is happening. Some shifts but we can still capture some of the spawning activity. Mackerel will only spawn during the right conditions.

[redacted]: is it possible to predict how much landings could have been caught. Is it posslbe using purchase slips, amount per day over time? Prediction?

Thimas: have not way of knowing this. Considering this is the first time TAC was caught we do not have precedence for this.

[redacted] based on what we know what's going on the 3k and 4r, we would have landed somewhere between 30,000 and 40,000.

[redacted]: hypothesis..

Martin: 3 meeting assessment starting in US in May. They have developed a new index comparable to ours. The US portion of the stock seems to be very depleted.

Christa notes: [redacted]

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Thomas: view mackerel does migrate out of the gulf. Prob standing in a zone of high mixing of the stock. Working with assumption that what we catch in Canada is Canadian mackerel.

[redacted] buys and sells fish to local fisherman for bait. Bought close to 1million pounds of makeral in 2015 and 2016. Invested about 1000 hours of time following closure. Egg survey slide 14. Is it done in 1 week (yes week to 10 days). How long of the day? Research science vessel, 24 hours of day. How much time could be spent on site towing. First temperature tow and then survey through plankton.

[redacted] would like to start a mackerel association. Seeing a lot of small fish. Anticpate a problem with buying and selling small fish. Different bt small and large mackeres. Some fisherman thing it is 10lbs out of a hundres but is 10 balls. I don't think you can target two year old fish. How will be get along the min size issue. Would like to look into what we expect is Greenland stock. Examine genenic difference. 155 new scientist coming in, pursuing this issue also with NS provincial govt. Requests a seat at the table.

TAC:

[redacted] – point of clarification. LRP clarification

Thomas: would be the boundary between the critical zone and cautious zone. 103,000t

[redacted] why is it the chart

Thomas: Probability of reaching LRP in two years

[redacted] looking at declared and undeclared. We were at 14,000 market. If undeclared are included in the TAC then that would actually affect the recommendations.

Brian: undeclared will change over time as we change our monitoring. It does have an impact on how much undeclared we have.

Thomas: Model estimated undeclared in past years but does not estimate in future years. We can assume average of 6000t.

[redacted] sn't monitoring a govt decision not industry.

Brian: wasn't a prob until this year. Purchase slips are out of date. Timeliness of purchase slips is a problem. NL is 100 DM, hail in. Limted bait catches in NL for mackerel. Good opportunity to discuss what can be done in southern gulf.

[redacted] discussed at length. Willing to work on full implementation of log books for 2017 season.

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de la Loi sur l'accès à l'information.

Brian: have you considered when and how often logbooks would be reported. Discussed monthly reporting to DM company.

[redacted] on Gaspie already are using logbook 100 % and hail-in 100%. Have electronic elog, lobster fisherman track bait needs.

[redacted] We have a log book. Why are there so many regional differences? Consistency.

Brian: in terms of nL as history evolved so has monitoring. Will addressing monitoring this year.

[redacted]: we have all the mechanism is place. Up to dfo to implement and get the best numbers we can.

Brian: we need govt and fishermen to come together to implements. We have a poor record of fishermen submitting data.

[redacted] we talked about accelerating reporting period. Cost in another important consideration.

Brian: appreciation of also cost of mackerel

[redacted] ecology. Appreciate efforts on science. Unreported and unmanaged have been raised across a number of years. Encourage better monitoring and consistent reporting. [redacted] will submit.

[redacted] not reporting, putting in freezer...

Brian: most impt thing is for mgnt and science to report unreported catches. 6000t undeclared is the elephant in the room.

NL: something wrong when we see 6000t is considered not being monitored. DFO needs to get a handle on this. Something needs to be in place that truly reflects the activity. There is a double standard and it is causing problems with the stock assessment. Needs to be forced to make it more accountable.

[redacted] what constitutes a bait fishery. If I catch mackerel that could be put into a bait market. Would that be considered bait fishery.

Brian: In NL it would be considered commercial. Personal bait has a number of conditions for personal use. Not allowed to ship it or sell it. However, this could be used as commercial in practice when nto permitted. Could be affecting undeclared.

[redacted] always believed in quality. Infrastruture is not there to monitor. There could be 40-50 boats out fishing for bait. To call in everytime we are out is not feasible. 25% monitoring is not good for us.

Brian: it is not fishery officer jobs to make sure you are not filling out logs.

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[redacted]Sometimes it sounds like we are actively trying not to report. As it becomes more critically needed, filling our of documents may not have been done because it was not as critical at today. Identify that this is more critical and if it is not done then you wont get your licence.

[redacted] if cost to monitoring to too high, you may end up throwing out. Logbook reporting in less costly.

[redacted]100 hail in.

[redacted]possible soln may be found in gaspro fishery. For number of years it was difficult for DFO to report landing, then used logbooks. Now before you can renew there is a requirement to check logbook before conditions are issued.

[redacted] Don't miss opportunity to also report on size. Monitoring plus better stats on mackerel that is being landed.

Gaspie: everyone is using paper. Everyone

Brian: has iniatitives to move to elogs. There is an opportunity to use elogs. One area is mackerel. Given use in herring it would be useful to also use for mackerel. Dept will be exploring this in recent years.

[redacted] is issue of reporting for rec fisheries is a consideration. Would encourage the dept to consider how that might look going forward.

Brian: for 2018 there will be regulations in place for rec fishery for season bag limits. Mackerel may be a candidate for marine rec fish licence.

Rec fish harvest, ron ceney NS federation for anglers and hunters: 6500 members and supports. Not going away. More and more in cooperaton with ab partners with not using mackerel for bait. Recreational saltwater licence, supports research. Abuse in commercial bait fishery is apparent.

Recreational fishery for handline have been put on a wench. Small fish are being destroyed by hooks and go back in. In commercial fishery we see it as a bait fishery.

[redacted] Met with [redacted] who wants to be a member of association. Don't think that dockside monitoring company can come up with enough staff. Not sure a monitor can be in every port. Have been discussing elog since October with brian lester. Need a handle on reporting problem. Plans on buying into a mackerel licence. Worried about paying of lobster licence (500,000) if there is not other fishery to fall back on. Got 1100t from Mackerel but already had a number high than that. Does not understand where the loss in translation in log books is coming from.

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Brian: reality of elogs into other areas will take some time. Can tell for sure that it will be in place for 2018. We have looked into moving it from herring into mackerel for quebec. Continuation of monitoring based on purchase slips is not acceptable.

[redacted] dumping species on the ocean has been happening for a long time.

Brian: Unreported encompasses everything.

[redacted]: pay for elog. Maybe as a big group we can get a discount.

Brian: Is there an ability to do side sampling as part of elogs

[redacted] very easy to add questions regarding stats that science wants. You don't have to put in coordinates, it automatic, dates vessel, etc,,,

Can take a scaled photograph.

[redacted] have been waiting for improvement in logbooks for along time. As far of DM for handlines is $90 per landing not affordable. No requirement to hail. Paper Logbook is checked as per condition of licence if you are not compliant. As far as representation on this committee and communications, have been search thrugh DFO website on mackerel fishery. Earliest is from 2007. Lack of communication. PM and minister made a commitment to consult with organizations. Check with superiors to see if it is the existing committee who determines who can be represented on this committee. Will not accept something that will price small scale fishermen out of the fishery.

Brian: in terms of science an number of years ago the department move to stock assessment in line with science. Proceedings were just a few weeks ago in Mont Joli. This paper is not ready. AMAC has a current body that has been defined, we can review representation at a later date.

Province of NB: message from [redacted] indicating he concurs with what [redacted] has said.

[redacted] what is the process for decision on this committee. LRP only reached if total is 4,000t.

Brain: we try to operate as a consensus committee. Maybe be inclined to recommend that rec fishery be included. Do not mean the chair will not recommend. Will look at [redacted] once he forms an organization.

TAC:

How do we come up to 103,000 with only 4000 on table

Thomas: Scenario with no fishing mortality. It is a scenario. Wide range of scenario to show long range.

[redacted] is there a minium of undeclared catches? Depending on what that will be when will DFO get back to the department. Regional representatives with work on this. Most significant work will be done in

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the Gulf region. What can DMP do, can they take hails. Will look different in the southern gulf. NL would be ideal with 100% DM but is it feasible, likely no.

NL [redacted] referencing chart as accurate. Indicated that there are some gaps. Does not indicate the volumes we have seen. Doesn't have perception that it is accurate. If we had fished last year we would have wiped out table. It's more respectful of the fishery but not complete

Martin: 8000t was last model. We did not have missing catches included.

Brain: precautionary approach rebuilding plan would include harvest decision rules. Will be speaking about a rebuilding working group to bring to the table. Could have different scenarios of F which would look at harvesting advice and TAC. Heading in direction of the PA for this fishery. Rebuiding working group would look at this.

[redacted] s it possible to look at number for next year. Two years is too long to wait.

[redacted] in past we were talking about declared and undeclared.

Brian: monitoring will change the undeclared.

Thomas: whether or not this table is gospel. Disconnect particularly from NL. This table is internally consistent with the biomass estimate that you think it is not accurate.

[redacted] say we consider a rollover. We include better reporting. Is DFO prepared to give an increase in regulated catches from 8000t.

Thomas: if there is a decrease in regulated catches then it should permit more room for regulated catches.

Brain: can't tell what decisions DFO will accept. We will bring recommendations back from the committee.

[redacted] time to get some numbers out there. Fisherman that we represent we see more fish on water. Can't come to agreement. 36,000t. Should never have been dropped. Fish was there but could not continue fishing. If we see this much fish during a fishery, can DFO have meeting or suggestion to go further to keep fishing. We see all different age groups. If one fleet on west coast of NL went on for another week we could have taken the whole estimated biomass. Does not jive so not sure where to go. Lets hope stock keeps rebuilding. In NL everyone has to hail in catch. Hail in system would take care of undeclared catches.

[redacted] (PEI) – Saturday first day of april. Do we have plans to get TAC out before fishermen get on water.

Brian-May 15 usually starts. Plan to have minister briefed by end of April for decision.

[redacted] (NL)- attend a lot of assessment with advisors. [redacted] have put a lot of time and energy into this. Level of uncertainty. Done a lot of reflecting. Don't disagree with out [redacted] has put forward.

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Anything we can do from an industry prespective to get what ever sample are required and stats. We have a huge capacity in NL. Big uncertainly that we can't put our fingers on recruitment. In terms of what members have asked FFAW will work to ensure that all information required is available and appropriated.

[redacted] assuming 6000 is undeclared, once declared catch reached 8000t would it be shut down. Or do we look at total. Do we come up with assumption of 6000?

[redacted] if science thinks that in order to improve stocks more quickly if the think 270mm vs 263 we would support that.

[redacted] want to re-emphasize stock is at critical level. Egg survery increases sighn leve Is but still far below abundance estimate of 80s. Mgmt should make sure measures are taken remove outside of critical range. Want to ensure total TAC not exceed 8,000, remail above current levels by 2019. Consistent with PA. 89%

[redacted] made a quota recommendatiojn of 36,000t. cam we get the undeclared because of better monitoring.

Martime inshore: we can have a fundamental disagreement with science. If we had a strong believe in number and accuracly it would make things different. We see things differently on the water. If we move to increase reporting then we shold not drop the TAC. If you set TAC below the level to where fishery should be we do not have the whole picture. If we take not fish out of fishery, in 2018 we will see 77,000t in SSB. Model is well done, but fundamentaly we are not to be discounted because we are just fishermen. Good work has been done. But we see differnct. Can't see tonnage set below 140000. REcongnizing environmental factor, etc. need to see that by people that partake in fishery.

[redacted] agree with comments. Would like to talk about mackerel stock. For 65 years on july 15 you can go on our wharf and catch a mackerel. Woiuld describe it as. Incidental catch for lobster, insignificant to the stock. Digby, catching little mackerel, fisher understood mackerel did not grow big. Even concept of 8000t is not credible. Model is not credible. There is not one more concerned about the fishery than the fishmen. Believe the biomass is much stronger than science believes. 2015 comments, lots of small fish, general comments but everyone shocked that there were lots of fish in 2016. Which stock is more underthreat. Europen or Canada. Canadian mackerel is caught in a passive way. If nto fishing pelagic trawl which you can't then not aggressive. Recommendatin based on believe of strong stock recommnends 36,000t encompassing both reported and unreported

Gaspies, people) 20,000t however obtain more information. Can put minimu size at 270. We think $6000 undeclared in way to low.

- Maggies – we agree with 20000t with collegues.

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Gaspie: Suggest we have a one year TAC with review of landings again next year. Review with AMAC committee. A year to start process to move undleard to declared

Gulf NS planning board 20,000.

24,000. would like to see the limit decreased not increased to make the fishery more viable, return to 250mm or a little bit less.

20000t all in, increase reporting, 270 increase, review end of year.

does not support a size increase; review end of year, 20,000t all in.

NL: is There flexibility on TAC

: remind dept that the federal minister take into account climate change... which making decision..mandate leter...

NL: some years when we had the least amount of biomass we had the best recruitment. Large amount of fish, different sizes. Changing volume. Capacity for fish to rebound. Make sure science is right before you make decision based on science. Don't think science is reflective of the resource. We have history and knowledge. Doesn't think the chart reflects the diverse nature of

MFU: concurs with pei FA 20,000t all in

concur with pei FA, logbooks, also one year review.

have a fishery of opportunity. Catch when there. We need a higher TAC to be involved in the fishery to make it even viable. We will have years we don't catch and years were we do. Our fishery is self regulated. We had too much fish last year and our TAC was taken.

gaspie: if we look at all in, I suggest upper limit of all in removal 20,000(?) not reasonable to go below 14,000

Maritimes: need enough of quota. Need to do better job of measureing landings. Maximize info that you get out of the fishery. Frustrated that the conversation are eerilty similar every year with little progress. Comfortable to supporting 20,000 subject to improving reporting/information.

back to chart and 2nd column. At framework meeting natural mortality was explained (around 20%). If we stop fishing the mass would be considerable greater. Don't see how stock would be greater. Putting up minimum size does not seem to make sense.

Martin: need to take into account recruitment.

Maritimes: setting high TAC prevents a mentality for a rush to get out into the fishery before TAC is taken out. Usually putting small fish back doesn't work. They don't live by putting them back.

Brian: the biomass has shown some growth in past for years. Positive factor for this fishery.

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Licencing and access:

60/40 split.

Gulf NS planning board. Bait

2000lbs per day.

PIE: Adding addition gear type to hooks and line if commercial fishery were closed. Under bait conditions.

[redacted]:supports 2000lbs is enough for bait. Do we have number of hooks or gear.

Brian: Would be limited by weight and hooks.

Brian: most bait fisheries do not allow hook and line now.

PEI: condition were weight limits

Gaspie: so tis yhour daily limite that stops you? Yes.

[redacted]southwest coarst had some concern last year. There is a small uptake that catches a bit of bait. 60/40 highly migratory stock that can appear or disappear. Do not thing any breakdown of TAC serview the fishery in the long term. An appropriate tAC would balance that out. Leave it was it was before, peaole take advange according to migration and abundance.

[redacted] mackerel is migratory. See it in NL. Recognize as a function. Position as a large seiner. If we are at a point where mackerel is not taken by large seiner, it shold be taken by someone else somewhere. Some years mackerel is not within our reach.

Maggies: bait fishing in june fish mackerel . When lobster season ends not one else uses hook and line after gillnets. Mackerel if frozen for bait in sept for next season. If you closed in Sept if you reached TAC then it will cause big problems for bait for the next lobster season. In pei they fish lob is fall. In maggies lobster and mackerel are not there at the same time.

[redacted](nl): 36,000t. in following year can we have this looked at in one year. We expect the fish to show up again this year.

Noted: request to met, perhaps via conference as in other years. Evaluate post season to see what we will be doing for 2018.

PA/rebuilding plan:

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Commmisioner did an audit of DFO. One of the concerns with mackerel stock is in critical zone. In response and as recommended previously would like to have a PA working group/ rebuilding plan. Dept is committed to developing a rebuilding plan. Upper stock reference, target reference. Find appropriate F or look at management strategy evaluation for stock.

Brian will develop terms of reference. First call would not be until June. Sience will be part of working gourp. Will look at implementation of PA. working group of 8-10 people to start the ball rolling. Harvest control rule put in fishery by 2019.

Working Group

PEI FA

[redacted] Herring science council)

Gulf NS Planning board

Ecology action center

MFU gulf

Gaspe sud

FFAW

[redacted]

RPPSG: [redacted]

[redacted]

IFMP: will do the first interation and circulate for comment

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Revue par les pairs
Évaluation du maquereau bleu des sous régions 3-4
notes de discussion

Thomas Doniol-Valcroz
Martin Castonguay
[redacted]
Randy Rangle
Stephane plourde
Daniel Duplisea
Hugo Bourdage
[redacted]

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Gilles Duguay
Denis Bernier
Genevieve Perrin (Hareng)
Linda Girard
Kim Emond
Johane Gautier
Elisabeth van Bevereen
Julie Maritime (science NHQ)
Michel Gilbert

Yvan Lambert
Yves de la Fontaine
[redacted]
Louis fergusson
André Chevrier
Christa Waters
Mario Gaudet
Pierre Mallet
Jenness Cathway

1 Introduction : Description structure du Stock

- Dernière évaluation en 2014 avec les données de 2013
- En attente d'une collaboration avec les americains
- Évaluation des stocks avec le nouveau modèle avec les données de 2013, 2014 2015 et 2016 (préliminaire)
- Relevés des œufs annuels
- En 2014 les débarquements avaient bcp diminué et la longeur à 50% de maturité avait augmenté = pression sur le stock qui a amené la modification de la longueur minimal
- 2013, minimum historique de la biomasse reproductrice
- État critique du stock en 2014 avec une proposition de captures de 800 tonnes. Souligne le besoins d'avoir des données sur les captures non déclarées
- Abondances très élevées en europe et au centre de l'atlantique. 774000 tonnes de captures autorisées par le CIEM alors que les stocks sont au plus bas sur l'Ouest Atlantique
- Deux études scientifiques révèlent que les populations d'Europe et d'amérique du nord sont génétiquement différentes. Par contre, peu de différences entre les stocks canadien et américains mais peu d'échantillons. Besoin de plus d'investigation
- **Les maquereaux qui abondent au centre de l'atlantique vienne exclusivement d'Europe!!**
- Recherche à venir pour augmenter le nombre d'échantillons en amérique du nord afin de mieux étudier les différences entre les groupes reproducteurs canadien et américain
- Échantillons de maquereau au nord de 3K pour évaluer d'où viennent les maquereaux capturés au nord de Terre-Neuve (fogo Island)

- Principale problématique affectant l'évaluation
  - prises non rapportées
  - Différences entre régions de gestion (acheteurs qui déclarent les prises dasn GNS)

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- Considérations environnementales
    - Baisse importante de nombreuses espèces très diversifiées expliquées par la température de la CIF et l'abondance du plancton
- En utilisant les facteurs environnementaux, on explique très bien les variations du recrutement du maquereau. Les variables environnementales expliquent 86 % de la variation du recrutement alors que la biomasse du stock n'explique pas ces variations (pas de relation stock recrutement.
- La quantification de l'habitat optimal montre qu'il y a une grande variation d'une année à l'autre. Par contre il n'y pas de tendances claire (à la hausse ou à la baisse) dans les différentes zones qui montreraient que le maquereau se serait déplacé.

2. Mise à jour des données de la pêche commerciale

- Données de 2016 préliminaires
- Grande augmentation des débarquements dans les années 2000 liée à la forte cohorte de 1999 et à l'entrée dans la pêche de T-N
- Jusqu'à 2016, le TAC n'avait jamais été atteint et donc n'était pas limitant.
- 2013 grosses partie des débarquements sur la côte ouest de Terre-Neuve, 2015, très peu de débarquements à T-N. 2016, bcp de débarquements sur la Côte-Est de T-N
- 2015, prises débarquées un peu partout, 2016 carte incomplète mais montre beaucoup de débarquements sur la côte Est de T-N, pas de données des maritimes et du golfe. GR dans ces régions sont surpris
- Sylvain Hurtubise, ça fait 2 ans que le fichier ziff est demandé à chacune des provinces mais que les stats dans les maritimes ne répondent pas.
- **Gros problème de transmission de données. L'évaluation du stock (qui a lieu tous les deux ans) a été faite sans avoir les données des maritimes et du golfe : Situation inacceptable.**

3. Mise à jour des données biologiques

- Décalage entre les valeurs de l'indice de Fulton (K) et la couche intermédiaire froide.
- L'indice de condition du maquereau est clairement relié à la dynamique du zooplancton qui peut varier différemment de la CIF
- En 2016, le K (juin) était très faible et en dessous de la moyenne.
- K ne rentre pas directement dans le modèle mais peut avoir un impact sur l'évaluation de la biomasse. K est un indice de la qualité de la nourriture ou de l'habitat
- Le 50% de l'âge à la maturité a très peu changé.
- La longeur à 50 % de la maturité permet de déterminer la taille minimale légale.
- Bcp de variation entre les années mais l'augmentation de la taille à la maturité à amener à augmenter la taille minimale de capture. Il semble qu'après un fort recrutement la taille de maturité diminue. Relation densité dépendante ?
- Poids à l'âge très peu variable. Les poissons très âgés représentent un nombre très minime ce qui fait en sorte qu'il est difficile d'interprété les variations de poids pour ces classes d'âge.
- Contraction de la structure d'âge = signe de sur exploitation.
- Mortalité des âges 1 surement très sous-estimé à cause des remises à l'eau des petits poissons qui entraine beaucoup de mortalité.
- Les variations de capture à l'âge selon les trimestres sont expliquées par les différences de sélectivité des engins utilisés.
- Forte diminution de l'âge moyen des capture due à la disparition des classes d'âge agées.
- Pas de recrutements semblabe à celui de 1999 dasn les dernières années.
- Croissance accélérée dans les dernière années

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RELEVÉS DES OEUFS

- Concentration des œufs dans l'ouest de la zone. Dans le passé les œufs étaient plus concentrés à l'ouest des îles
- Rétrécissement de la zone de ponte. Moins d'endroit avec bcp d'œufs. 2015 ressemble à 2016
- Indice de production journalière moyenne d'œufs varie entre 15,68 et 22,93 entre 2013 et 2016.
- La production des œufs reste dans les valeurs les plus basses observées. Cependant il y a une légère augmentation de l'abondance depuis 2012.

PRISES NON DÉCLARÉES

- Terre-neuve va mettre en place un journal de bord pour la pêche à l'appât.
- Les résultats d'un sondage

Mise à jour du modèle

- 3 versions du modèle d'évaluation des stocks
  - Version 1: non-censurée (prises = déclarées)
  - Version 2: censurée informée (Canada)
  - Version 3: censurée avec Canada + 50% prises US et étrangères
- Les versions 2 et 3 ne sont pas significativement différentes dasn les années récentes. Comme l'avis demande un avis pour les zones 3 et 4 la version 2 du modèle n'incluant pas les captures potentielles américaines dans la composante canadienne a été retenue.
- Les résultats de la version 2 suggère que dans le passé, le rapport entre prises déclarées et non déclarées est autours de 1,5. Càd qu'on capture 150% de ce qui est décalré.
- Ce rapport augmente considérablement dans les dernières années certainement du fait que les prises déclarées ont diminuées.
- Pas de forts évènements de recrutement dans le modèle. Besoin d'attendre que les poissons deviennent disponibles à la pêche en 2017 et 2018.
- Si il y a un recrutement, on devrait le voir dans el relevé des œufs de 2017 (poissons de 2 ans qui seront alors matures)
- Le taux d'exploitation a énormément augmenté dasn les années 2000.
- **Taille du Stock avec le modèle est de 40000 tonnes**

APPROCHE DE PRÉCAUTION

- Les points de référence proposés font que d'après le modèle, on se situe à l'intérieur de la zone critique
- Cette position ne reflète peut-être pas l'impression que les pêcheurs ont sur la base de leurs observations de 2016

Détermination des prises et formulation du TAC

- Avis 2014 : 800 tonnes calculé avec un F très bas des années 90.
- Pour les projections dans le futur, on utilise une moyenne des facteurs sur les années récentes
- Si F constant de 0,2
  - Permet à la SSB d'augmenter
  - Permet d'augmenter le recrutement
  - Les captures augmentent ensuite.
- Avec un F = 0,3 l'augmentation des captures est moins rapide
- Avec un F = 0,5; on ralenti considérablement la croissance du SSB et les captures après avoir augmenté, diminue à nouveau

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- Avec un F= 1, on infléchi la trajectoire de biomasse, et après un an, les captures et le recrutement diminue.
- Si le F dépasse 0,3 la reconstruction du stock n'est pas favorisée.
- Parce qu'on est dans la zone critique, la priorité devrait être la reconstruction du stock
- L'avis va fournir un tableau avec plusieurs niveaux de capture reliés à des valeurs de F.

Années intérimaires

Prochaine évaluation prévue à l'hiver 2019
Les indicateurs de suivis pour l'état du stock à l'hiver 2019
Débarquements
Indice d'abondance des œufs

Taille Minimale

Très difficile d'estimer la mortalité liés aux rejets.

La taille permet de s'assurer que 50 % des poissons ont reussi à se reproduire

SOMMAIRE

- Baisse des débarquements entre 2013 et 2015. Le TAC a été atteint en 2016
- Baisse des débarquements americains
- La longueur à 50 % de maturité se maintient légèrement au dessus de la longeur minimale de capture
- Structure d'âge considérablement rétrécie suite à la disparition des poissons de plus de 5 ans. On observe une légère amélioration depuis 2013 avec une hause d'abondance des maquereaux d'âge de 5 et 6 ans
- L'indice d'abondance issue du relevé des œufs a atteint son niveau le plus bas en 2012 et a légèrement augmenté jusqu'à 52t en 2016. Cette valeur reste très faible.
- L'analyse des captures non déclarées montrent que les prises totale peuvent atteindre 150 % et 200 % des prises déclarées et que ce rapport varie selon les provinces
- Le modèle statistique des prises à l'âge confirme que la SSB a atteint sont minimum en 2012 et a légèrement augmenté pour atteindre 40 000 tonnes en 2016
- Baisse de biomasse occasionnée par des niveaux de mortalité par la pêche (taux d'exploitation) plusieurs fois supérieur au niveau historiques soutenables. Le rétablissement semble avoir été ralenti par la rareté des évènements de recrutement
- Le point de référence limite est de 103 000 tonnes, en 2016, le stock est donc à 40 % du PRL
- Stock dans la zone critique
- Étant donné que le stock est dans la zone critique, la priorité devrait être à la reconstruction. Des projections montrent que des mortalités de pêche totales (incluant les prises non déclarées) supérieur à 12500 tonnes compromettent le rétablissement du stock.

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s.19(1)

Marentette, Julie

From: Duprey, Nicholas
Sent: January-03-17 6:03 PM
To: Marentette, Julie
Cc: Krohn, Martha
Subject: FW: Invitation - Révision du cadre d'évaluation pour le maquereau bleu des sous-régions 3 et 4 / Assessment Framework for Subareas 3 & 4 Atlantic Mackerel
Attachments: Revue_Cadre_Maquereau_2017_Fr.pdf; ToR Mackerel Framework_2017_en.pdf

Follow Up Flag: Follow up
Flag Status: Completed

I have just looked over the Mackerel TOR for January. It sounds like they are going to be looking at completely different models and tools to estimate the mackerel population in 3 and 4. Do you know if they will be doing a comparison of the old method to the new method? It sounds like they are saying the old modeling program is no longer functional on DFO computers. If this is the case then it's unlikely they would be able to do a comparison of the old methods to the new methods... If there is a change in the assessment outcome for mackerel I am wondering how we will determine what "caused" the change – an actual change to the biology-population, or a change in the model assumptions and data.

Anyways just some thoughts
Cheers
Nick

Nicholas Duprey, M.Sc.

Senior Science Advisor, Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Nicholas.Duprey@dfo-mpo.gc.ca / Tel : 250-816-9709

Conseiller scientifique, Sciences des populations halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Nicholas.Duprey@dfo-mpo.gc.ca / Tél : 250-816-9709

From: Cyr, Charley
Sent: 2016–December-13 12:43 PM
Cc: de Lafontaine, Yves
Subject: Invitation - Révision du cadre d'évaluation pour le maquereau bleu des sous-régions 3 et 4 / Assessment Framework for Subareas 3 & 4 Atlantic Mackerel

English follow

Bonjour,

Le centre des avis scientifiques (CAS) de la région du Québec de Pêches et Océans Canada (MPO) tiendra une revue par les pairs régionale intitulée «Révision du cadre d'évaluation du stock de maquereau bleu des sous-régions 3 et 4». La réunion aura lieu du 1**8 au 20 janvier 2017** à la salle A582 à l'institut Maurice-Lamontagne

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à Mont-Joli, Québec. La rencontre débutera à **9 h le 18 janvier** et devrait se terminer vers 12 h le 20 janvier. Le cadre de référence pour cette revue est présenté en annexe.

La réunion consistera en un examen par les pairs du cadre d'évaluation pour le maquereau bleu des sous régions 3 et 4. L'objectif principal sera d'examiner les modèles pour suivre l'état des stocks et la productivité pour cette espèce. Une réunion d'évaluation du stock devrait avoir lieu plus tard en mars 2017.

Ces réunions se déroulent habituellement en français. Cependant, un service d'interprétation simultanée sera disponible pour cette revue.

Je vous saurais gré de bien vouloir confirmer votre présence à cette réunion au plus tard le vendredi 6 janvier 2017 avec moi par courriel à charley.cyr@dfo-mpo.gc.ca, par téléphonie (418) 775-0825 ou par fax (418) 775-0740. Pour toutes questions ou commentaires, n'hésitez pas à me contacter directement.

Cordialement,

Dear Invitee,

The Fisheries and Oceans Canada (DFO) Quebec Region Centre for Science Advice (CSA) is convening a peer review meeting entitled "Review of the Assessment Framework for the Atlantic Mackerel Stock for the Subareas 3 and 4". The meeting is scheduled for **January 18-20, 2017**, and will be held in Room A582 at the Maurice-Lamontagne Institute in Mont-Joli, Quebec. The meeting is to begin **at 9:00 am on Wednesday, January 18**, and is to adjourn by 12:00 am on January 20. The Terms of Reference for this review is attached to this invitation.

The meeting will be peer review of a science framework of the subareas 3 and 4 Atlantic Mackerel. The main objective will be to review Model(s) to Monitor Stock Status and Productivity for the species. A stock assessment meeting would occur later in March 2017.

Discussions usually take place in French. However, a service of simultaneous translation will be available for this review.

We would appreciate if you would confirm your attendance for this meeting by Friday, January 6, 2017, with Charley Cyr at Charley.Cyr@dfo-mpo.gc.ca; (Tel) 418-775-0825; or (Fax) 418-775-0740. For any questions or comments, please feel free to contact me directly.

Sincerely,

Charley Cyr

Directeur, Avis, Informations et soutien scientifiques
Direction régionale des Sciences
Pêches et Océans Canada / Gouvernement du Canada
charley.cyr@dfo-mpo.gc.ca / Tél.: 418-775-0825

Director, Scientific Advices, Informations and Support
Science Regional Branch
Fisheries and Oceans Canada / Government of Canada
Charley.cyr@dfo-mpo.gc.ca / Tel.: 418-775-0825

Ma langue, une question de respect
My language, a matter of respect

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Terms of Reference

Review of the Assessment Framework for Atlantic mackerel in subareas 3 and 4

Regional Peer Review – Quebec Region

January 18–20, 2017
Mont-Joli, Quebec

Chairperson: Dominique Gascon

Context

In the Maritime Provinces, in Newfoundland and in Quebec (NAFO subareas 3 and 4), over 15,000 commercial fishers participate in the Atlantic mackerel fishery. This fishery takes place mainly inshore using gillnets, jiggers, handlines, seines and traps. The type of gear used varies by region and time of year. Canadian landings of Atlantic mackerel are underestimated because some logbooks from the bait fishery are not filled out, and because direct sales at sea occur in this fishery. In addition, neither catches in the recreational fishery, which occurs during summer months all along the Atlantic coast, nor the discards of small mackerel are recorded. This issue of unrecorded catches has been raised on numerous occasions over the course of previous assessments. Until we can better monitor fisheries data collection, we can take into consideration the uncertainty regarding unrecorded catches using newly developed statistical models.

The abundance of Atlantic mackerel has been assessed until now using a sequential population analysis (SPA). This SPA is calibrated using an abundance index that is calculated based on data from an egg survey that takes place annually in the Southern Gulf of St. Lawrence. The last assessment of mackerel in subareas 3 and 4 was conducted in winter 2014. The software that was used for the SPA has become obsolete and no longer works on recent systems. In addition, it could not account for the unrecorded catches.

The Fisheries and Aquaculture Management Branch has requested a scientific advice on Atlantic mackerel in Canadian waters for the 2017 and 2018 fishing seasons. In preparation for this assessment, it is important to develop a new population dynamics model in order to estimate the status of the resource. This statistical catch-age model will need to be able to fully integrate the various sources of uncertainty, including the estimated unrecorded catches, and to allow for the calculation of robust reference points. The goal is to review this new assessment framework for Atlantic mackerel in subareas 3 and 4. The assessment of the Atlantic mackerel stock in subareas 3 and 4 is scheduled for March 2017.

Objectives

- Present the results of an online survey of fishers, and of an analysis of bait needs, in order to estimate an upper limit for undeclared catches used for bait;
- Select models to assess mackerel stock status and productivity in subareas 3 and 4, more specifically the stock size, catch at age composition and fishing mortality:
    - Identify a methodology that will allow us to estimate the unrecorded catch;
    - Assess the performance of models (with and without unrecorded catch) using diagnostics and sensitivity analyses (adjustment to data and residuals, retrospective analyses, sensitivity to main productivity parameters of stock);
- Determine methodology to characterize stock productivity including reference points for fishing mortality and spawning stock biomass and past, current and projected states relative to these points.

Expected publications

- 1 proceedings
- 2 research documents

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Participation

- Fisheries and Oceans Canada (DFO) (Science and Fisheries Management sectors)
- NOAA Representatives / National Marine Fisheries Service, USA
- Industry representatives
- Provincial representatives
- Academics
- Aboriginal communities/organizations
- Environmental NGOs

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Cadre de référence

Révision du cadre d'évaluation pour le maquereau bleu des sous-régions 3-4

Examen par des pairs régional – région du Québec

Du 18 au 20 janvier 2017
Mont-Joli (Québec)

Président : Dominique Gascon

Contexte

Dans les provinces maritimes, à Terre-Neuve et au Québec (sous-régions 3 et 4 de l'OPANO), plus de 15 000 pêcheurs commerciaux pratiquent la pêche au maquereau bleu. Celle-ci se déroule généralement près des côtes à l'aide du filet maillant, de la turlutte, de la ligne à la main, de la senne et de la trappe. L'utilisation de ces engins de pêche varie selon la région et la période de l'année. Les débarquements canadiens de maquereau bleu sont sous-estimés puisque ce ne sont pas tous les livres de bord de la pêche d'appât qui sont remplis et qu'il y a des ventes directes en mer provenant de cette pêche. De plus, les prises de la pêche récréative, qui se déroule au cours des mois d'été le long de la côte atlantique, ne sont pas rapportées, tout comme les rejets de petits maquereaux. Ce problème des captures non comptabilisées a été soulevé à de nombreuses reprises au cours des évaluations précédentes. En attendant qu'un meilleur contrôle de la cueillette des données de pêche ne soit établi, il est possible de prendre en compte l'incertitude sur les captures manquantes au sein de modèles statistiques nouvellement développés.

L'abondance du maquereau bleu a été évaluée jusqu'à maintenant par une analyse séquentielle de populations (ASP). Cette ASP est calibrée par un indice d'abondance calculé à partir des données provenant d'un relevé des oeufs qui se déroule annuellement dans le sud du golfe du Saint-Laurent. La dernière évaluation du maquereau des sous-régions 3 et 4 remonte à l'hiver 2014. Le logiciel qui était utilisé pour l'ASP est devenu désuet et ne fonctionne plus sur les systèmes récents. De plus, il ne pouvait prendre en compte les captures manquantes.

La Direction de la gestion des pêches et de l'aquaculture a sollicité un avis scientifique du maquereau bleu des eaux canadiennes pour les saisons de pêche 2017 et 2018. En prévision de cette évaluation, il est important de développer un nouveau modèle de dynamique de population afin d'estimer l'état de la ressource. Ce modèle statistique des prises selon l'âge devra être capable d'intégrer pleinement les différentes sources d'incertitude, y compris l'estimation des captures manquantes, et permettre le calcul de points de référence robustes. Le but est d'effectuer la revue de ce nouveau cadre d'évaluation pour le maquereau bleu des sous-régions 3-4. L'évaluation du stock de maquereau bleu des sous-régions 3 et 4 est prévu en mars 2017.

Objectifs

- Présenter les résultats d'un sondage en ligne effectué auprès des pêcheurs et d'une analyse des besoins en appâts afin d'estimer une limite supérieure pour les captures non-déclarées de la pêche pour l'appât;
- Sélectionner les modèles pour évaluer l'état du stock et la productivité du maquereau des sous-régions 3-4, plus précisément la taille du stock, la composition des captures à l'âge et la mortalité par pêche :
    - Déterminer la méthodologie qui permet d'estimer les captures manquantes;
    - Déterminer la performance des modèles (avec et sans la capture manquante) au moyen de diagnostics et d'analyses de sensibilité (ajustement aux données et résidus, analyses rétrospectives, sensibilité aux principaux paramètres de productivité du stock);

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- Déterminer la méthodologie permettant de caractériser la productivité des stocks, notamment les points de référence de la mortalité par pêche et de la biomasse du stock reproducteur, ainsi que les états passés, actuels et prévus relativement à ces points.

Publications prévues

- 1 Compte rendu
- 2 documents de recherche

Participation

- Pêches et Océans Canada (MPO) (Secteurs des Sciences et de la Gestion des Pêches)
- Représentants de NOAA / National Marine Fisheries Service, USA
- Représentants de l'Industrie
- Représentants provinciaux
- Universitaires
- Communautés ou organisations autochtones
- Organisations non gouvernementales à vocation environnementale

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Cormier, Mélanie

De: Boudreau, Suzie
Envoyé: 3 janvier 2017 11:24
À: Rivierre, Antoine
Objet: TR: mackerel - maquereau
Pièces jointes: 2016-307-00006 Status of atlantic mackerel; mackerel info; TR: Rencontre sciences pélagiques et Gestion des pêches - estimation des captures de maquereau non rapportées

Pour info - tes dossiers

-----Message d'origine-----
De : Gagné, Danie De la part de Lemire, Maryse Envoyé : 21 novembre 2016 10:31 À : Gros-Louis, Denis Cc : Boudreau, Suzie; Arseneau, Cédric Objet : TR: mackerel - maquereau

Bonjour,

Pour votre information au cas où vous ne l'ayez pas déjà reçu en août dernier.

Danie Gagné pour :
Maryse Lemire
Directrice régionale, Gestion des pêches Pêches et Océans Canada – Région du Québec / Gouvernement du Canada
Maryse.Lemire@dfo-mpo.gc.ca / Tél. : 418-648-5783 / Téléc. : 418-648-7981

Regional Director, Fisheries Management
Fisheries and Oceans Canada – Quebec Region / Government of Canada
104 Dalhousie Street, Quebec (Quebec) G1K 7Y7 Maryse.Lemire@dfo-mpo.gc.ca / Tél. : (418) 648-5783 / Fax : (418) 648-7981

-----Message d'origine-----
De : de Lafontaine, Yves
Envoyé : 5 août 2016 10:07
À : Bliss, Doug
Cc : Lemire, Maryse; Gilbert, Michel
Objet : RE: mackerel

Doug,

Thanks you for your request and we'll make sure to have you in our distribution list for documents and information about Gulf St.Lawrence mackerel.

I attach some recent correspondence about mackerel stock status and the debate on the science advice and the allocated TAC. I also attach the most recent scientific advice (CSAS doc) on mackerel stock assessment. All the pelagic experts in our region are currently on vacation and will return next week. So specific questions can be forward to Michel Gilbert who is in charge of the pelagic group.

Ass you will not in reading the documents, there is much uncertainty with regards to mackerel data, since a large fraction of total harvest is not recorded: bait for personal use, unreported fisher to fisher bait sales, recreational fishery, poaching. Accounting of non-commercial mackerel catches through a logbook system was recently implemented in

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Québec but not in the 4 Atlantic provinces. A large proportion of mackerel catches in Atlantic Canada do not enter fish plants but are sold (legally) from fisher to fisher for personal use for lobster or crab bait. And we suspect important and unregulated recreational fishery.

[redacted]

I cc the Quebec Fisheries Management director, Maryse Lemire, for information and invite you to contact her for more details about FM details on mackerel management

Cheers,

s.16(2)
s.19(1)
s.21(1)(b)

Yves de Lafontaine

Directeur, Direction régionale des Sciences Pêches et Océans Canada / Gouvernement du Canada
Yves.delafontaine@dfo-mpo.gc.ca Tél. : 418-775-0555 / tél. cell. : [redacted]

Director, Sciences regional directorate Fisheries and Oceans Canada / Government of Canada Yves.delafontaine@dfo-mpo.gc.ca Tel : 418-775-0555 / Cel. : [redacted]

-----Message d'origine-----
De : Bliss, Doug
Envoyé : 5 août 2016 07:56
À : de Lafontaine, Yves <Yves.deLafontaine@dfo-mpo.gc.ca> Cc : Bliss, Doug <Doug.Bliss@dfo-mpo.gc.ca> Objet : mackerel

Hi Yves,
Given the two recent reports, Oceana and WWF, which underscored the plight of mackerel stocks I am guessing there will be continued interest in the state of the stock. (See the media request below.) In fact under MSC certification lobster fishermen in PEI have to start to reduce their dependence on mackerel as bait since MSC has acknowledged that the populations of mackerel are low. So their seems to be a rising interest in mackerel.

That being said, given that you have the science lead for mackerel in the Gulf, I was wondering if you could copy us, me in particular, of advice that you or your staff may be providing to Fisheries Management in the Gulf or Communications so I can be current with the state of play of this dossier.

Merci bien,
Doug

[redacted] *Times & Transcript, Moncton (Print)*
[redacted] (Responsive) The reporter asked for information on mackerel stocks in the Northumberland Strait and southern Gulf of St. Lawrence. He said he and other fishermen are noticing there are plenty of mackerel but they seem to be very small. He is wondering if an age class is missing. He also asked if size restrictions have been introduced in the past year or so in the commercial and or recreational mackerel fishery. Communications will follow up with Gulf Resource Management on the recreational fishery, with Communications Québec Region on the stock questions and with Communications NHQ on management measures in the commercial fishery. (GLF) (S / FAM) (N)

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s.19(1)

Cormier, Mélanie

De: Richard, Josée
Envoyé: 9 janvier 2017 07:57
À: Rivierre, Antoine
Cc: Lemelin, Dario
Objet: RE: ALPAC - proposed new dates

Bonjour Antoine,

Est-ce que tu participes à la « Révision du cadre d'évaluation pour le maquereau bleu des sous-régions 3-4 » du 18 au 20 janvier à Mont-Joli?

Les pêcheurs des Îles craignent que des parts historiques soient instaurées dans le maquereau et que ce soit T-Neuve qui avale la plus grosse partie. Je ne pense pas que cet enjeu soit discuté lors de cette rencontre mais bon, ils sont inquiets. Ils veulent aussi assister au RAP en mars.

Si tu participes à la rencontre de janvier, est-ce qu'il te serait possible de nous faire un bref sommaire suite à cette rencontre?

Merci à l'avance,

De : Rivierre, Antoine
Envoyé : 23 décembre 2016 10:06
À : Richard, Josée
Objet : RE: ALPAC - proposed new dates

Bonjour Josée
J'ai retrouvé des courriels de 2015 concernant le comité consultatif maquereau. À l'époque le comité s'est tenu par conférence téléphonique aux alentours du 23 mars. C'est l'administration centrale qui avait lancé l'invitation et je m'attends donc à ce que ça fonctionne de la même manière en 2017! Dès que j'ai des nouvelles à ce sujet je vous les ferai suivre.

Pour la réunion petits et grands pélagiques, je pense que c'est une rencontre de travail interne au MPO. En 2015 (encore), Mathieu avait organisé un Comité consultatif régional sur le Thon avec l'industrie pendant lequel il en avait profité pour faire une retour sur ce qui avait été discuté à cette réunion.

J'espère que cela répond à tes questions. N'hésite pas à me contacter si tu as besoin d'autres informations.

[redacted]

Antoine

De : Richard, Josée
Envoyé : December-22-16 8:49 AM
À : Rivierre, Antoine
Objet : RE: ALPAC - proposed new dates

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Merci pour les infos Antoine.

Comme il y a un RAP sur le maquereau, j'imagine qu'il y aura aussi un comité consultatif.

Concernant l'Atelier de travail sur les petits et grands pélagiques, est-ce un atelier interne?

Merci,

De : Rivierre, Antoine
Envoyé : 21 décembre 2016 14:58
À : Richard, Josée
Objet : RE: ALPAC - proposed new dates

En janvier c'est la révision du cadre d'évaluation pour le maquereau bleu des sous-régions 3-4 : un atelier de 3 jours à l'IML
<< Fichier: Revue_Cadre_Maquereau_2017_Fr.docx >>
Effectivement la revue par les pairs est prévue du 8 au 9 mars 2017 : Évaluation du stock de maquereau bleu du nord-ouest de l'Atlantique (sous-régions 3 et 4) à Mont-Joli

Pour le comité consultatif, il y a un atelier de travail sur les petits et grands pélagique planifié début Février mais les dates ne sont fixées pour le moment.

Je n'ai pas d'information concernant les dates d'un comité consultatif mais sur l'intranet, il apparait que Mathieu Bergeron a participé au comité consultatif sur le maquereau par conférence téléphonique en mars 2016. Or je croyais que le comité se rencontrait tous les 2 ans ?? Donc théoriquement il n'y aurait pas de comité consultatif cette année. Par contre rien ne nous empêche de planifier un appel conférence pour faire une sorte de comité régional pour les petits pélagiques ?

Je valide cette information et te reviens dès que j'ai plus d'informations

Merci

Antoine

De : Richard, Josée
Envoyé : December-21-16 1:25 PM
À : Rivierre, Antoine
Cc : Hardy, Magalie
Objet : RE: ALPAC - proposed new dates

OUPS, mon erreur, 8 et 9 mars 2017 le RAP maquereau.

De : Richard, Josée
Envoyé : 21 décembre 2016 14:17
À : Rivierre, Antoine
Cc : Hardy, Magalie
Objet : RE: ALPAC - proposed new dates

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Une dernière question. Comme il y a un RAP sur le maquereau en janvier à l'IML, j'imagine qu'il y aura une comité consultatif. As-tu une idée de la date et de l'endroit de la rencontre?

Merci,

De : Rivierre, Antoine
Envoyé : 21 décembre 2016 12:45
À : Richard, Josée
Cc : Hardy, Magalie
Objet : RE: ALPAC - proposed new dates

Bonjour Josée.
Les dernières dates avancées pour l'ALPAC sont le 21-22 Mars 2017 à Halifax.
L'information date du 29 novembre et je n'ai pas eu de mise à jour à ce sujet.

Antoine

De : Richard, Josée
Envoyé : December-21-16 11:12 AM
À : Rivierre, Antoine
Cc : Drapeau, André; Hardy, Magalie
Objet : RE: ALPAC - proposed new dates

Bonjour Antoine,

Est-ce qu'il y a une date d'identifiée pour ALPAC?

De : Drapeau, André
Envoyé : 30 novembre 2016 09:19
À : Richard, Josée; Hardy, Magalie
Objet : TR: ALPAC - proposed new dates

PVI – dès qu'elles seront officielle je vous en avise

De : Mallet, Pierre
Envoyé : 30 novembre 2016 07:08
À : Kerwin, Jessica; Penney, Kim; Sweet, Marilyn; Drapeau, André; Melvin, Gary D; Hanke, Alex; Dalton, Alexander J; Duprey, Nicholas; Vuckovic, Ljubica; LeCouffe, Marc
Objet : RE: ALPAC - proposed new dates

Works for me

thanks

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From: Kerwin, Jessica
Sent: November-29-16 3:51 PM
To: Mallet, Pierre; Penney, Kim; Sweet, Marilyn; Drapeau, André; Melvin, Gary D; Hanke, Alex; Dalton, Alexander J; Duprey, Nicholas; Vuckovic, Ljubica; LeCouffe, Marc
Subject: ALPAC - proposed new dates

Just a heads up...tentative date for ALPAC is March 1-2 – with a First Nation meeting on the afternoon of February 28th.

Still working through the details as we had initially been looking at march 21-22nd...so things are kinda all over the place right now.

Do these dates work for everyone?

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Marentette, Julie

From: Doniol-Valcroze, Thomas
Sent: January-12-17 11:02 AM
To: Marentette, Julie
Subject: RE: Mackerel framework and assessment

Julie,

You're sending these questions to the right person but I was in a meeting all day yesterday. Yes, I am planning to circulate a (rough) draft of the new model before the meeting, probably on Monday. It will be in French for the time being, however, because that's the main language of all the invited experts, except for our American guest.
And yes, we will compare the performance of the old and the new models in terms of fit to data, retrospective patterns, etc. But we also hope the make the case that there are good reasons to use the new model besides mere performance.

Cheers,
Thomas

De : Marentette, Julie
Envoyé : 11 janvier 2017 15:11
À : Doniol-Valcroze, Thomas
Objet : RE: Mackerel framework and assessment

Hi Thomas,

I left you a phone message but I had a few questions about the framework meeting next week:

1. Are there going to be any documents circulated in advance for review, e.g. for the new SCA model that is being proposed?
2. Will there be any kind of performance comparison between the old SPA method and the new SCA method, to see whether they generate similar kinds of predictions? I know the Terms of Reference mentioned the old software is obsolete, but is it completely unusable?

If I should send these questions to someone else, please let me know! Thanks!

Best regards,

Julie Marentette, Ph.D.

Science Advisor, Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Julie.Marentette@dfo-mpo.gc.ca /Tel: 613-943-2098

Conseillère scientifique, Sciences des populations halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Julie.Marentette@dfo-mpo.gc.ca /Tél: 613-943-2098

From: Doniol-Valcroze, Thomas
Sent: November-02-16 1:33 PM

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To: Duprey, Nicholas; Castonguay, Martin; Marentette, Julie
Cc: Krohn, Martha
Subject: RE: Mackerel framework and assessment

Nick,

It's true I did not think we would write a SAR for the first meeting. I was thinking that the first meeting would result in a res doc on the model and the second meeting would yield a res doc on the status of the resource. And then, a single SAR could synthesize the results of both, in addition to the LRP issue. Given how close in time the two meetings are, it seemed like a more efficient approach. If that's not possible, then we'll have to either write a SAR on the LRP at the first meeting, or to push the LRP issue into the second one. I'll talk to Charley about it.

Thomas

De : Duprey, Nicholas
Envoyé : 1 novembre 2016 14:56
À : Doniol-Valcroze, Thomas; Castonguay, Martin; Marentette, Julie
Cc : van Beveren, Elisabeth; Krohn, Martha
Objet : RE: Mackerel framework and assessment

Hi Thomas, this makes total sense to me. The only hiccup might be what deliverables you are expecting for the January meeting. Are you expecting a SAR out of the Framework meeting? If so then there are no problems as the LRP advice (i.e. which method to use) can be incorporated into the SAR. I do know that some regions do not do SARs for Framework meetings, and if that was the hope here it might be hard to finalize the LRP (or you might have to draft a short SAR to cover the LRP advice).

Charley should be able to answer this pretty quick on what CSAS feels should be done in providing a final decision (advice) on LRP for mackerel. I am by no means an expert on the process, just trying to think ahead. I really do think it would be great to have the LRP decision made at the January meeting.
Cheers
Nick

Nicholas Duprey, M.Sc.

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Pêches et Océans Canada / Gouvernement du Canada
Nicholas.Duprey@dfo-mpo.gc.ca / Tél : 250-816-9709

From: Doniol-Valcroze, Thomas
Sent: 2016–November-01 11:49 AM
To: Duprey, Nicholas; Castonguay, Martin; Marentette, Julie
Cc: van Beveren, Elisabeth; Krohn, Martha
Subject: RE: Mackerel framework and assessment

Nick,

We feel it would make sense to use the January framework meeting to finalize the discussion on which LRP to use, and then at the March meeting we would update the value of that LRP with the most up-to-date data and model estimates.

s.19(1)
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This approach would be consistent with what we intend to do for the model, i.e. the January meeting will be about reviewing and validating the model itself and the March meeting will use the approved model with the new data.

Cheers,
Thomas

De : Duprey, Nicholas
Envoyé : 1 novembre 2016 12:54
À : Castonguay, Martin; Marentette, Julie
Cc : Doniol-Valcroze, Thomas; van Beveren, Elisabeth; Krohn, Martha
Objet : RE: Mackerel framework and assessment

This is great, thanks for the information Martin. Also thanks for correcting my dates for the Mackerel assessment ☺ Sounds like things are very much in hand and moving along fantastically.

Do you have a sense which meeting will review LRPs for Mackerel? I know we discussed this before, but wasn't 100% sure which meeting would cover this review? Or would you review them at the January meeting and then select one at the March meeting?
Cheers
Nick

Nicholas Duprey, M.Sc.

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From: Castonguay, Martin
Sent: 2016–November-01 6:13 AM
To: Duprey, Nicholas; Marentette, Julie
Cc: Doniol-Valcroze, Thomas; van Beveren, Elisabeth
Subject: RE: Mackerel framework and assessment

Hi Nick,

The terms of reference are not yet written for these 2 mackerel meetings but this is what we are planning. The framework meeting (Jan 18-20) will review Elisabeth's statistical catch at age (SCA) model and examine various ways to incorporate estimates of missing catch (largely unreported bait catches). The goal is to come up with one agreed model to use for the upcoming March assessment. We are inviting [redacted] (NOAA-Fisheries, Woods Hole) and [redacted] (NOAA-Fisheries, Narragansett), all expenses paid.

The assessment meeting (Mar **8-9**) will use the consensus model, and include 3 more years of data (2014, 2015 and 2016) and update abundance indices. Thomas also plans to run a model that will also include US catches (i.e. entire NW Atlantic). Because this may pave the way for the upcoming US assessment in fall 2017, we invited the same US colleagues to also participate to this meeting (but they will have to cover their own expenses). We haven't yet heard confirmation that they will come for this second meeting. It is important to realize that US mackerel assessments always include catch from the entire NW Atlantic because their fishery

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is primarily conducted in winter at a time when "Canadian" mackerel are thought to be in US waters. Because of this stock mixing problem, their only choice is to model the entire NW Atlantic.

Hi Julie, welcome aboard.

Martin

Martin Castonguay, Ph.D.
Chercheur et Chef de section Sciences pélagiques /
Research scientist Head of Pelagic science section
Institut Maurice-Lamontagne
Pêches et Océans Canada / Fisheries and Oceans Canada
850 route de la mer, C.P. 1000,
Mont-Joli, Québec,
Canada G5H 3Z4

Tel 1 418 775 0634
Fax 1 418 775 0740
martin.castonguay@dfo-mpo.gc.ca

De : Duprey, Nicholas
Envoyé : 31 octobre 2016 16:55
À : Castonguay, Martin
Cc : Doniol-Valcroze, Thomas; Marentette, Julie
Objet : Mackerel framework and assessment

Hi Martin and Thomas,
I was going over the CSAS schedule today and noticed that it now has dates attached to two meetings early in 2017, one framework (Jan 18-20) and one assessment (March 7-8).

I am assuming that the framework meeting goal is still to review Elisabeth van Beveren's Statistical Catch-at-Age model and Thomas's work to incorporate the US data. Are there any other large objectives (agenda items)? For example do you think any new indices will be tested/reviewed?

At the second meeting, where the assessment will take place, do you think that the Americans will also participate? Or will they only be participating in the first, framework, meeting?
Cheers, Julie who will be leading on this file is copied here too
Nick

Nicholas Duprey, M.Sc.

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Longtin, Jean

From: Wallace, Dorothy
Sent: January 12, 2017 1:39 PM
To: Longtin, Jean
Subject: FW: Itinerary and Backgrounders for DM's Meeting with FFAW and OCI - January 13, 2017
Attachments: SN - DM_ Mtg with FFAW_RDG ver.docx; SN DM Mtg with Ocean Choice International_RDG ver.docx; DM NFLD trip itinerary.doc

Importance: High

For NL

Dorothy Wallace
Scheduling Coordinator | Coordonnatrice de l'agenda
Office of the Deputy Minister | Bureau de la Sous-ministre
Fisheries and Oceans Canada | Pêches et Océans Canada
200 Kent St, 15S010 Ottawa, ON K1A 0E6
dorothy.wallace@dfo-mpo.gc.ca
Telephone | Téléphone 613-991-4849
Government of Canada | Gouvernement du Canada

From: Butler, Annette **On Behalf Of** Anderson, Kevin
Sent: January-12-17 1:16 PM
To: Hopkins, Lillian; Malko, Carol
Cc: Neary, Lynn; Wallace, Dorothy
Subject: Itinerary and Backgrounders for DM's Meeting with FFAW and OCI - January 13, 2017
Importance: High

Good afternoon,

Attached are two Scenario Notes/Backgrounders for the FFAW and OCI meetings, as well, we have updated the itinerary as per Dorothy's previous comments.

For the FFAW Meeting – we were just advised of two additional agenda items. Our Fisheries Management Staff are currently drafting material for these items and we will be providing them via email later today.

Please let me know if you have any concerns.

Thank you,

Annette Butler on behalf of

Kevin G. Anderson
Regional Director General
Fisheries & Oceans
Newfoundland & Labrador Region

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Fish, Food and Allied Workers Union (FFAW-Unifor)

Background

President – Keith Sullivan
Secretary-Treasurer – David Decker

Formed in 1971, the Fish, Food and Allied Workers Union (FFAW) is the largest private sector union in Newfoundland and Labrador.

The FFAW primarily represents fish harvesters and fish plant workers but also has members working in the brewing, hotel, window manufacturing, metal fabricating, and oil industries.

Representing approximately 9,200 harvesters and 7,700 plant workers, the FFAW has a significant influence on the fishing sector. Elected committees represent inshore fish harvesters (boat owners and crew), fish plants workers, and offshore trawlermen throughout approximately 500 communities.

It is governed by a 19 member Executive Board which includes the President, Secretary Treasurer, Vice President Inshore and Vice President Industrial-Retail-Offshore who are elected by a province-wide mail out ballot. The board also includes two affirmative action positions and a retiree position.

It is actively involved in lobbying government on issues which affect its members, such as Employment Insurance reform, fisheries management issues and Workers Compensation.

The union employs 20-plus full-time staff with headquarters in St. John's as well as regional field representatives. It is actively involved in negotiation of fish prices and collective agreements, training and education programs for its members.

The union also collaborates with DFO in the collection of data for stock assessment purposes and lobbies government on issues which affect its members.

The FFAW is currently affiliated with Unifor – Canada's largest private sector union, with more than 310,000 members across the country. It is a member of the Newfoundland & Labrador Federation of Labour and the Canadian Labour Congress, the Canadian Independent Fish Harvesters' Federation, the Canadian Council of Professional Fish Harvesters, and the National Seafood Sector Council.

A group of fish harvesters, led by former NDP MP Ryan Cleary, are currently engaged in a certification bid to establish a new union (FISH-NL) representing the inshore sector. It is uncertain if this ongoing certification process will be successful.

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s.21(1)(b)

3Ps in General

Snow crab and cod are the two most important commercial fisheries for the inshore fleet in 3Ps. Both stocks have declined precipitously in recent years and fish harvesters, in Placentia Bay in particular, are facing significant financial challenges.

The 2016 assessment of 3Ps Snow Crab points to a continuing decline in the stock. The Catch per Unit Effort (CPUE), trawl survey exploitable biomass index and overall recruitment all dropped to their lowest observed levels, and recruitment is expected to remain low in the short term (2–3 years).

Similarly, the 2016 Stock Assessment of NAFO subdivision 3Ps cod advises that recent trends in mean size and weight-at-age, fish condition, and age-at-maturity are at or near their lowest observed levels, suggesting reduced productivity of this stock.

In 2016 only 7,000 tons of the 13,000 ton 3Ps cod quota was caught.

The department with the FFAW and others on Tuesday, January 10 to consult on 2017 3Ps management measures. Following the meeting, the FFAW issued a news release stating that *"According to past practice, when the quota is set below the 10,000 ton threshold, offshore trawlers are removed from the fishery... With a quota cut below the 10,000 ton threshold, the entire quota must be allocated to the inshore...,"*

The Department is working with the FFAW on a Cod Quality Project that is examining ways to improve the quality of cod landed and facilitate a higher economic return, but to date there are no participants in 3Ps.

Your Objectives

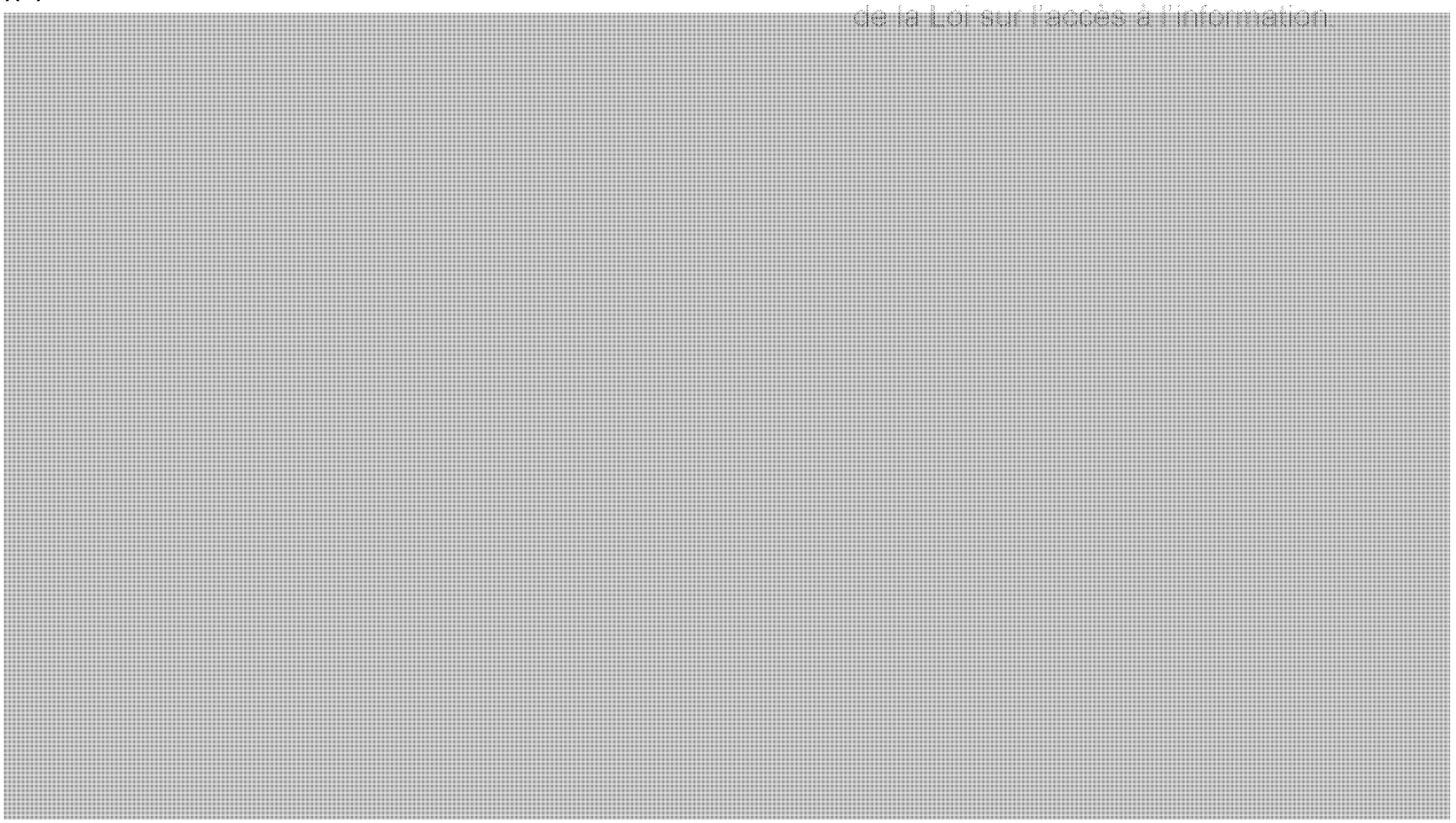
Your objective is to listen to FFAW concerns and commit to working with them to find solutions.

KEY MESSAGES

We are aware of the serious declines in 3Ps crab and cod, and the very challenging circumstances faced by inshore harvesters. We are taking this in consideration in our decision-making.

All decisions on the future management approach for 3Ps cod and crab fisheries, however, must be based on science and will be made in consultation with industry, Indigenous groups and other stakeholders.

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KEY MESSAGES

We are aware of the very challenging circumstances faced by the Placentia Bay fish harvesters.

As the Minister advised when he received your proposal in October, the department must take the time to do a thorough analysis of it. That is underway.

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Preserving the Independence of the Inshore Fleet in Canada's Atlantic Fisheries (PIIFCAF)

PIIFCAF was implemented in 2007 to strengthen the Owner Operator and Fleet Separation policies, which were being compromised by the proliferation of controlling agreements. While hundreds of harvesters have complied with PIIFCAF and taken back control of their enterprise, there remain a number of controlling agreements.

The FFAW, as a member of Canadian Independent Fish Harvester's Federation, is strongly supportive of the PIIFCAF principles.

In 2015 DFO announced additional actions to further strengthen the policy including *targeted* and *risked-based compliance* reviews to ensure that harvesters meet the independent core status – meaning that licenses must not be subject to controlling agreements.

Compliance with PIIFCAF in the Newfoundland and Labrador Region is relatively high.

Your Objective

Your objective is to reiterate the department's commitment to PIIFCAF.

KEY MESSAGES

Fisheries and Oceans Canada is committed to implementing the policy on Preserving the Independence of the Inshore Fleet in Canada's Atlantic Fisheries (PIIFCAF) to ensure inshore harvesters remain independent and economically viable.

While compliance with PIIFCAF in the Newfoundland and Labrador Region is relatively high, there are a number of individual fish harvesters believed to be in controlling agreements. The Region is currently undertaking targeted reviews of those licences and arrangements.

s.21(1)(b) Document Released Under the Access to Information Act / Document divulgué en vertu de la Loi sur l'accès à l'information.

Northern Cod

A full Science assessment was completed in March 2016 which showed encouraging signs of stock improvement but recommended that catches be kept at the lowest possible level.

For the 2016 season, the department agreed to a 1-year pilot with the new management measures.

FFAW and some processors have come together to form the Newfoundland and Labrador Groundfish Industry Development Council (NL-GIDC) which has proposed a strategy to manage the re-emerging cod fishery off the coast of Newfoundland and Labrador.

[redacted]

Your Objective

Your objective is to reiterate the department's commitment to a sustainable fishery and science-based decision making. [redacted] the department is committed to working with the FFAW on cod recovery measures.

KEY MESSAGES

Rebuilding and sustainability of Northern cod stocks is a priority for Fisheries and Oceans Canada. We recognize the importance of the cod fishery to people and communities in Newfoundland and Labrador.

The good news is Northern cod has increased substantially since the mid-2000s. We must balance this with a note of caution however. The stock is still in the lower half of the critical zone, which means it is well below the levels observed in the mid-1980s.

Our goal is to reach a healthy, sustainable level and we are committed to working with stakeholders on a cod recovery strategy in anticipation of an eventual return to a commercial cod fishery.

The department is currently reviewing the results of the 2016 stewardship fishery. We will discuss this, and other management measures, for the 2017 stewardship fishery during our regular consultation process with industry, Indigenous groups and other stakeholders.

We support FFAW and WWF efforts to meet sustainability standards through development of a Fisheries Improvement Project and we will continue to work with you to help you achieve your goals.

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The Minister did commit that the first 115,00t of quota will be allocated to the inshore. At this time, however, we cannot determine when a commercial cod fishery might reopen. Any decision related to reopening a commercial cod fishery would have to be based on scientific stock assessment and consultation with industry, Indigenous groups and other stakeholders.

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Dale, Francine

From: Wallace, Dorothy
Sent: January-12-17 1:39 PM
To: Longtin, Jean
Subject: FW: Itinerary and Backgrounders for DM's Meeting with FFAW and OCI - January 13, 2017
Attachments: SN - DM_ Mtg with FFAW_RDG ver.docx; SN DM Mtg with Ocean Choice International_RDG ver.docx; DM NFLD trip itinerary.doc

Importance: High

For NL

Dorothy Wallace
Scheduling Coordinator | Coordonnatrice de l'agenda
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Government of Canada | Gouvernement du Canada

From: Butler, Annette **On Behalf Of** Anderson, Kevin
Sent: January-12-17 1:16 PM
To: Hopkins, Lillian; Malko, Carol
Cc: Neary, Lynn; Wallace, Dorothy
Subject: Itinerary and Backgrounders for DM's Meeting with FFAW and OCI - January 13, 2017
Importance: High

Good afternoon,

Attached are two Scenario Notes/Backgrounders for the FFAW and OCI meetings, as well, we have updated the itinerary as per Dorothy's previous comments.

For the FFAW Meeting – we were just advised of two additional agenda items. Our Fisheries Management Staff are currently drafting material for these items and we will be providing them via email later today.

Please let me know if you have any concerns.

Thank you,

Annette Butler on behalf of

Kevin G. Anderson
Regional Director General
Fisheries & Oceans
Newfoundland & Labrador Region

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DRAFT

CATHERINE BLEWETT DEPUTY MINISTER, FISHERIES AND OCEANS CANADA

VISIT TO NEWFOUNDLAND AND LABRADOR REGION - ST. JOHN'S

JANUARY 13, 2017

Flight Arrival	St. John's on West Jet 3422 at 9:20 am, Friday, January 13th
9:30-945	**Travel: St. John's Airport to NAFC** Transportation to be provided by Kevin G. Anderson (Cell: [redacted] **Distance: 11.2 km (13 min)**
9:45-10:15	**Respectful Workplace Video Message** **Location: RDG's Office – NAFC** **Participants:** - Catherine Blewett, Deputy Minister, Fisheries and Oceans Canada - Kevin Anderson, Regional Director General Newfoundland & Labrador Region - Regional Communications Staff – Lana Collins & Kathryn King - Robert Lambert and Terry Fleet - Co-chair's Newfoundland & Labrador Region Respectful Workplace Committee
10:15-11:15	**Meeting with Fish, Food and Allied Workers** **Location: E.B. Dunne Boardroom – NAFC** **Participants:** - Catherine Blewett, Deputy Minister, Fisheries and Oceans Canada - Kevin Anderson, Regional Director General, Newfoundland and Labrador Region, Fisheries and Oceans Canada - Jacqueline Perry, Regional Director Fisheries Management - Keith Sullivan, President, FFAW-Unifor - David Decker, Secretary-Treasurer, FFAW-Unifor **Discussion Items:** - 3Ps Retirement/3Ps in General - PIIFCAF - Northern Cod - Turbot/NAFO **(Summary Information Pending)** - Mackerel **(Summary Information Pending)** **Supporting Materials:** - Backgrounder
11:15-12:15	**Oceans Choice International** **Location: RDG's Office - NAFC** **Participants:** - Catherine Blewett, Deputy Minister, Fisheries and Oceans Canada

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	- Kevin Anderson, Regional Director General, Newfoundland and Labrador Region, Fisheries and Oceans Canada - Jacqueline Perry, Regional Director Fisheries Management - Martin Sullivan, President and CEO, Ocean Choice International (TBC) - Blaine Sullivan, Chief Operating Officer, Ocean Choice International (TBC) **Discussion Items:** - Surf Clams - 3Ps Groundfish - Northern Cod **Supporting Materials:** - Backgrounder
12:15-12:45	**Lunch – RDG's Office NAFC**
12:45-13:00	**Travel – NAFC to Confederation Building** **Distance 5.2 km (11 min)**
13:00-14:30	**Meeting with the Province of Newfoundland and Labrador** **Location: Confederation Building East Block, 100 Prince Philip Drive, St. John's, NL** **Participants:** - Catherine Blewett, Deputy Minister, Fisheries and Oceans Canada - Jody Thomas, Commissioner, Canadian Coast Guard - Wade Spurrell, Assistant Commissioner, Atlantic Region, Canadian Coast Guard - Kevin Anderson, Regional Director General, Newfoundland and Labrador Region, Fisheries and Oceans Canada - Patricia Hearn, Deputy Minister, Intergovernmental Affairs - Ted Lomond, Deputy Minister, Business, Tourism, Culture and Rural Development - David Lewis, Deputy Minister - Fisheries, Forestry and Agrifoods - Wandalee Wiseman, Assistant Deputy Minister – Fisheries, Forestry and Agrifoods **Discussion Items:** - Oceans Protection Plan - Atlantic Fisheries Investment Fund **Supporting Materials:** - Cheat sheet of Oceans Protection Plan investments in Newfoundland and Labrador (Coast Guard lead) - 2-page Atlantic Fisheries Fund summary (Strategic Policy lead)
14:30-15:30	Meeting with Patricia Hearn, Deputy Minister, Intergovernmental Affairs **Location: TBC**

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	Participants: - Catherine Blewett, Deputy Minister, Fisheries and Oceans Canada - Patricia Hearn, Deputy Minister, Intergovernmental Affairs
15:30–15:45	Travel: Confederation Building to NAFC **Distance 5.2 km (11 min)**
15:45 – 16:20	**TBC**
16:20-16:35	Travel: NAFC to St. John's Airport **Distance: 10.6 km (12 min)**
Flight Departure 17:35	AC8997 – St. John's to Halifax

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Ocean Choice International (OCI)

Background

Chief Executive Officer – Martin Sullivan
Chief Operating Officer – Blaine Sullivan

Ocean Choice International (OCI) is a privately held, vertically-integrated seafood company, headquartered in St. John's, Newfoundland and Labrador (NL). OCI is engaged in harvesting, processing and marketing a diverse range of species for domestic and international markets.

OCI holds significant fishing allocations, including about 25,000 tonnes of groundfish (flounder, redfish, turbot, cod, etc.) and 10,000 tonnes of shellfish (scallops, shrimp, crab, etc.), which are fished by its six frozen-at-sea ("FAS") vessels. Some of these allocations are held by QuotaHoldco, a company owned 49% by the Province of NL and 51% by OCI. Through this arrangement OCI harvests offshore groundfish allocations, formerly held by Fishery Products International.

Beyond harvesting its own quotas, OCI also operates six processing plants in Newfoundland and Nova Scotia that annually purchase about 20,000 tonnes of raw material from independent fish harvesters. OCI plants in NL are located in the following communities: Port au Choix, Triton, Bonavista, St. Lawrence, and Fortune). The plant in Nova Scotia is located in Riverport.

Six of the fisheries in which it participates (yellowtail flounder, Northern shrimp, snow crab, offshore scallop, Atlantic halibut and Georges Bank haddock) have been MSC certified, while another two are in the process (3Ps cod and 3LN redfish).

During peak season, OCI has about 2,000 employees working in offices, plants and on vessels.

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Access to Northern Cod (2J3KL)

s.21(1)(b)

A commitment has been made by the Minister that, in a commercial fishery, the first 115,000 tonnes of northern cod will be allocated to the inshore fixed gear sector.

The offshore sector, in which OCI is a major stakeholder, does not agree with this position and continues to lobby for access.

The offshore contends that historically they landed approximately 30% of northern cod and they therefore argue they should be given that proportion of annual removals. This position was put forth as part of the consultation process for the 2016 season.

Your Objective

[redacted]

You can reiterate the department's commitment to a sustainable fishery and science-based decision making and signal that a commercial fishery is not likely anytime soon.

KEY MESSAGES

Rebuilding and sustainability of Northern cod stocks is a priority for Fisheries and Oceans Canada. We recognize the importance of the cod fishery to people and communities in Newfoundland and Labrador.

The good news is Northern cod has increased substantially since the mid-2000s. We must balance this with a note of caution however. The stock is still in the lower half of the critical zone, which means it is well below the levels observed in the mid-1980s. Our goal is to reach a healthy, sustainable level.

All decisions about a future sustainable Northern cod fishery will be based on science and made in consultation with industry, Indigenous groups and other stakeholders.

At this time, however, we cannot determine when a commercial cod fishery might reopen. Any decision related to reopening a commercial cod fishery would have to be based on scientific stock assessment and consultation with industry, Indigenous groups and other stakeholders.

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2. Access to Arctic Surf Clams (Banqueareau Bank and Grand Bank)

OCI may raise the issue of its interest in gaining access to the Arctic surf clam fishery on the Banquereau Bank and Grand Bank. There is currently only one offshore company, Clearwater, with access to this fishery.

Arctic surf clam is primarily used in sushi preparations in Japan, China, and South Korea. The licenses also allow for the harvest of other species including ocean quahogs, Northern propeller clams, and cockles. The total allowable catch (TAC) is currently 38,487 tonnes.

The department will be completing an assessment of the arctic surf clam stock on Banquereau Bank in the spring of 2017. Results of that assessment will be discussed at a subsequent Offshore Clam Advisory Committee meeting.

In addition, scientific work for the Grand Bank stock area is being planned and details will be announced in 2017. The last assessment for the Grand Bank was done in 2010, based on a survey that took three years to complete between 2007 and 2009.

In December, 2016, Minister LeBlanc industry that a decision will be made in 2017 about more open access to this fishery in 2018. Considerations would include access fees, economic benefits for Canadians and access for indigenous peoples

Your Objective

Your objective is to reiterate the department's commitment to the long term sustainability of the arctic surf clam fishery, the Minister's commitment to opening access to the fishery in 2018, and the planned investment in DFO science.

KEY MESSAGES

The Minister has stated that a decision will be taken in 2017 regarding access to the arctic surf clam fishery for 2018. This decision will be supported by a clear and transparent process moving forward.

Economic benefits for communities, Indigenous peoples and Canadians are some of the elements that will be considered in the process.

The long term sustainability of the arctic surf clam fishery is a priority for the Government of Canada. Science will be conducting an assessment of the Banquereau Bank stock in 2017 to determine the sustainability of the current level of the TAC for that area.

In addition, scientific work for the Grand Bank stock area is planned and details will be announced later this year.

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s.21(1)(b)

3Ps Cod

The 2016 Stock Assessment of NAFO subdivision 3Ps cod advises that recent trends in mean size and weight-at-age, fish condition, and age-at-maturity are at or near their lowest observed levels, suggesting reduced productivity of this stock.

In 2016 only 7,000 tons of the 13,000 ton 3Ps cod quota was caught.

The department with the FFAW and others on Tuesday, January 10 to consult on 2017 3Ps management measures. Following the meeting, the FFAW issued a news release stating that *"According to past practice, when the quota is set below the 10,000 ton threshold, offshore trawlers are removed from the fishery...With a quota cut below the 10,000 ton threshold, the entire quota must be allocated to the inshore...,"*

Your Objectives

Your objective is to listen to OCI concerns and reiterate the department's commitment to sustainable fisheries.

KEY MESSAGES

We are aware of the serious declines in 3Ps cod, and the very challenging circumstances faced by industry. We are taking this in consideration in our decision-making.

All decisions on the future management approach for the 3Ps cod fishery, however, will be based on science and will be made in consultation with all segments of industry, Indigenous groups and other stakeholders.

s.20(1)(c) s.21(1)(b)
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QuotaHoldco/Yellowtail Flounder Quota Transfer

QuotaHoldco is a company owned 49% by the Province of NL and 51% by OCI. Through this arrangement OCI harvests offshore groundfish allocations, formerly held by Fishery Products International.

The Department has recently renewed QuotaHoldco's nine-year licence, commencing in 2017. Under this arrangement, licence fees are paid on the annual enterprise allocations (EA).

Your Objectives

Your objective is to listen to OCI's request

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Marentette, Julie

From: Doniol-Valcroze, Thomas
Sent: January-16-17 5:44 PM
To: Marentette, Julie; Rivierre, Antoine
Subject: documents
Attachments: Online_survey_ResDoc.docx; WP_modele_maquereau.pdf

Bonjour,

Voici deux documents de travail en prévision de la revue cadre. L'un est en anglais et l'autre en français (à cause des langues principales des premières auteurs).

Charley va sûrement les faire circuler mais je préfère vous les envoyer au plus vite.

À mercredi.

Thomas

Thomas Doniol-Valcroze, PhD
Biologiste en sciences aquatiques | Aquatic Science Biologist
Direction des Sciences Pélagiques et des Écosystèmes | Pelagic and Ecosystems Sciences Branch
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Fisheries and Oceans Canada | Pêches et Océans Canada
Ecosystems and Oceans Science | Sciences des écosystèmes et des océans

Canadian Science Advisory Secretariat (CSAS)

Research Document X

Québec Region

Results of an informal survey of Canadian Atlantic mackerel commercial, recreational and bait fishers

(WORKING TITLE)

authors[1]

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850 route de la Mer
Mont-Joli, QC
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January 2017

Canada

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Foreword

This series documents the scientific basis for the evaluation of aquatic resources and ecosystems in Canada. As such, it addresses the issues of the day in the time frames required and the documents it contains are not intended as definitive statements on the subjects addressed but rather as progress reports on ongoing investigations.

Research documents are produced in the official language in which they are provided to the Secretariat.

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ABSTRACT

For several years researchers and stakeholders have highlighted that Canadian catches of West Atlantic mackerel are underestimated, but the extent of the problem is still largely unknown. We launched an informal online survey towards all Canadian mackerel fishermen in order to obtain a rough estimate of the proportion of catch which is undeclared (bait, discards and recreational catch). In addition, we asked if fishermen observed a clearly larger proportion of small mackerel to evaluate the idea that a new cohort is arriving. The study involved 476 respondents from the 5 provinces, who fished mackerel for bait, recreational or commercial purposes. We found that more than half of all mackerel was used as bait, primarily for the lobster fishery, but also to bait 11 other species, of which tuna, snow crab and halibut were most common. Recreational fishing, generally with rod and line, can also be done semi-professionally with jiggers and gillnets, so that it should not be neglected. Additionally, 1.9% of the catch was discarded, mainly because of undersized fish. As a result of bait use, recreational fishing and discarding, true catch was about 150% the declared catch, a number which should however be weighted to balance biased sampling. Also, about half of the fishermen observed abundant young mackerel, indicating that recruitment might indeed have peaked.

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Résultats d'un Enquête informelle sur la pêche au maquereau au Canada

RÉSUMÉ

....to write when the English version is ok.

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INTRODUCTION

Western Atlantic mackerel is a transboundary stock that seasonally migrates between North Carolina (USA) and Eastern Canada, comprising Nova Scotia, the southern Gulf of Saint-Lawrence and Newfoundland. The landings declared by Canadian fishermen fell sharply after 2010 and stock biomass is currently considered to be low. Because of this demanding situation, more consideration should be given to counter large sources of uncertainty in the stock assessment and to fill gaps of knowledge about the fishery.

In particular, for several years advisory reports stressed that national catch statistics are largely underestimated (Bourdages et al. 2016). There are no provincial (besides for Quebec) or national requirements to report mackerel used as bait for personal use or sold between fishermen. As mackerel is one of the main bait species for large-scale fisheries such a lobster and crab, unreported catch is expected to be substantial. In addition, mackerel is caught recreationally throughout Eastern Canada at many wharves and aboard chartered vessels. Because of the scale of recreational fishing, it is assumed that this significantly amplifies the underreporting ratio. But despite that biased catch can have an important impact on the stock assessment (Griffiths 2015, Rudd and Branch 2016), only little attention has been paid to the use of mackerel as bait, recreational fishing or discarding. For instance, the few official data sources available focus on a restricted area (e.g. Quebec, Côté-Laurin et al. 2014) or were performed by order of the lobster or crab industry (e.g. MSC 2012, 2014).

Additionally, it would be convenient if the occasional spike in recruitment, most likely attributable to good environmental conditions (Duplisea and Grégoire 2014), could be detected earlier (e.g. for forecasting). This year (2016) is a good opportunity to explore this, as in June 2015 the egg survey indicated that total annual egg production was higher than in previous years (since 2009) and in August of the same year an unusually large amount of small (mostly 4cm - 14cm or age 0) mackerel were captured in the scientific bottom trawl survey (Bourdages et al. 2016). Both signals indicate that a strong cohort might be about to enter the fishery. However, scientific bottom trawls do no accurately reflect mackerel abundance because mackerel catchability is low and subject to changes because of their high swimming speed, position in the water column and varying schooling and vertical behavior. Observations from fishermen might shed light on this hypothesis.

Many methods exist to sample a specific fishery (telephone surveys, mixed surveys, etc., e.g. Griffiths et al. 2013), most being cost prohibitive and ineffective when the fishery is very heterogeneous and the spatial scale and the fishermen population is great. This is unquestionably the case for the Canadian mackerel fishery, which spans 5 provinces, is constituted out of an important recreational, bait and commercial fishery and uses a variety of gear types. An online survey is a cost-effective method to gather in a short time span a large amount of data. Indeed, such surveys have become increasingly popular over the years, especially for recreational fishing (e.g. Ferter et al. 2013). There are however some well-known pitfalls with the use of online surveys, such as non-response bias (respondents might be different from non-respondents) and sample validity (every fisher must have a known change of participation), that can make results less reliable (Duda and Nobile 2010). Keeping this is mind, the online survey remains an efficient tool if information is required to obtain rough estimates, expand general knowledge or explore future research or management options.

We launched an informal online survey towards Canadian Atlantic mackerel commercial, recreational and bait fishers with as main objectives to;

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1) Obtain a rough estimate of the proportion of catch which is used for bait, caught recreationally or discarded, and hence the catch reporting rate.
2) Verify if a clearly larger proportion of small mackerel has been witnessed, so that the recruitment hypothesis can be examined.

METHODS

Google forms was used to create an online survey of about 12 questions (Appendix), directed to all Canadian Atlantic mackerel fishermen, but in particular to commercial and bait fishers. Participation was anonymous, none of the questions was obligatory and most were open-ended so that fishermen were free to provide additional information if desired. The survey was spread (2016-17-10) soon after the TAC (Total Allowable Catch, 8000t) was attained and the commercial fishery was closed and kept online as long as answers were submitted (2016-12-04). The survey was send twice by e-mail in French and English to 3453 e-mail addresses (excluding failures and negative returns) of licensed fishers of Quebec (QC), New Brunswick (NB), Nova Scoatia (NS) and Prince Edward Island (PE). Newfoundland could not be included in the mailing lists as the province does not collect such contact information. Moreover, links were posted on 3 Facebook groups (using a copy of the English form) and a forum, a life radio interview was broadcasted by the CFIM radio station of the Magdalen Islands and an article with the appropriate information appeared in a local Nova Scotian newspaper (NovaNews).

SURVEY RESULTS AND DISCUSSION

Survey power

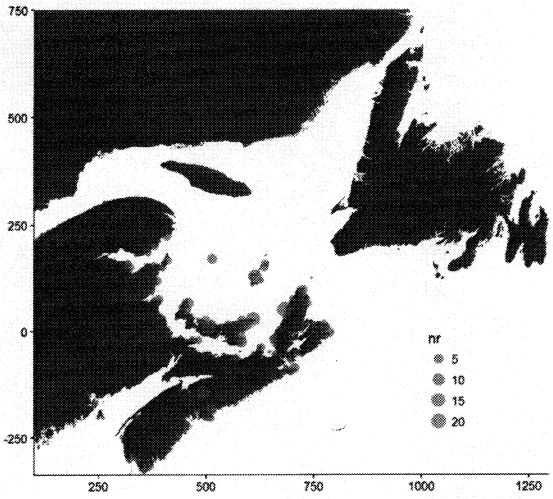


Figure 1 Spatial distribution of the ports were mackerel was landed by survey participants. Dots off the coastline result from inexact answers (Gaspesie, Newfoundland, Nova Scotia, Prince Edward Island, Magdalen Islands, Cape Breton and the Gulf).

A total of 476 non-empty forms were submitted (7% through Facebook), of which 11% were French and 89% were English. As we do not know the true number of active fishermen (licensed or recreational), it is impossible to determine the exact scope of the survey. However, in 2014, 8082 licenses were given (DFO 2016) of which an unknown but potentially large proportion is inactive. Therefore, at the very least 5% of the active licensed fishermen (N=390) answered the survey. Additionally, the total declared catch indicated by survey participants was 1536t, around 19% of the TAC (Total Allowable Catch) attained (8000t). Although the total declared catch will be higher than the TAC (and this percentage thus lower) because bait fishing was still permitted, the missing declared catch is likely to be in large part from large-scale fishers from NL who were less reached by this survey. Hence, likely an even larger fraction of the catch of the other provinces was sampled. Indeed, most participants were from Nova Scotia (185), followed by Prince Edward Island (105), Quebec (58), New Brunswick (53) and Newfoundland (14). Figure 1 shows that apart for Newfoundland, the survey had an adequate geographic coverage. Thus, if results for the whole area would be used, they should

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be weighted by province and if possible by fishing activity or even gear (see later). Ideally, for example a complementary telephone study should be used to highlight and correct some potentially biased estimates, despite that we sampled a relatively large proportion of the mackerel fishermen.

Charactering the fishery: types of activity, baiting and gear use.

Most fishers classified their fishing activity as bait fishing (40%), but the fractions of both commercial (19%) and recreational fishermen (15%) were also important (Fig. 2). Fishermen who indicated to have a mixed activity most often combine commercial with bait fishing, whereby commercial fishing represents on average a somewhat larger proportion of the total catch. The proportion of bait fishers was relatively similar between provinces (33-49%), but the percentage of recreational (0% for NL - 38% for NB) and commercial (6% for NB - 43% for NL) fishers questioned was more area dependent.

Individual bait fishers used mackerel to bait 1 to 4 different commercial species (on average 1.55), lobster being by far the most common (Fig. 3). However, 11 other species are also baited with mackerel, of which tuna, snow crab and halibut were respectively the most important. There are no major spatial differences, as the main species baited with mackerel are the same (with the exception of snow crab in PE) and lobster is always leading.

The most commonly used gear type was the jigger, especially in NS and PE (Fig. 4). Three other gears were also frequent used; handlines, rod and line and gillnets. Although only 12 seiners replied, 6 of them were from NL. Differences in fishing gear reflect the previously discussed dissimilarities in fishing activities between the provinces: commercial fishing is most important in NL, whereas in NB fishermen fish mackerel mainly for recreational and bait purposes.

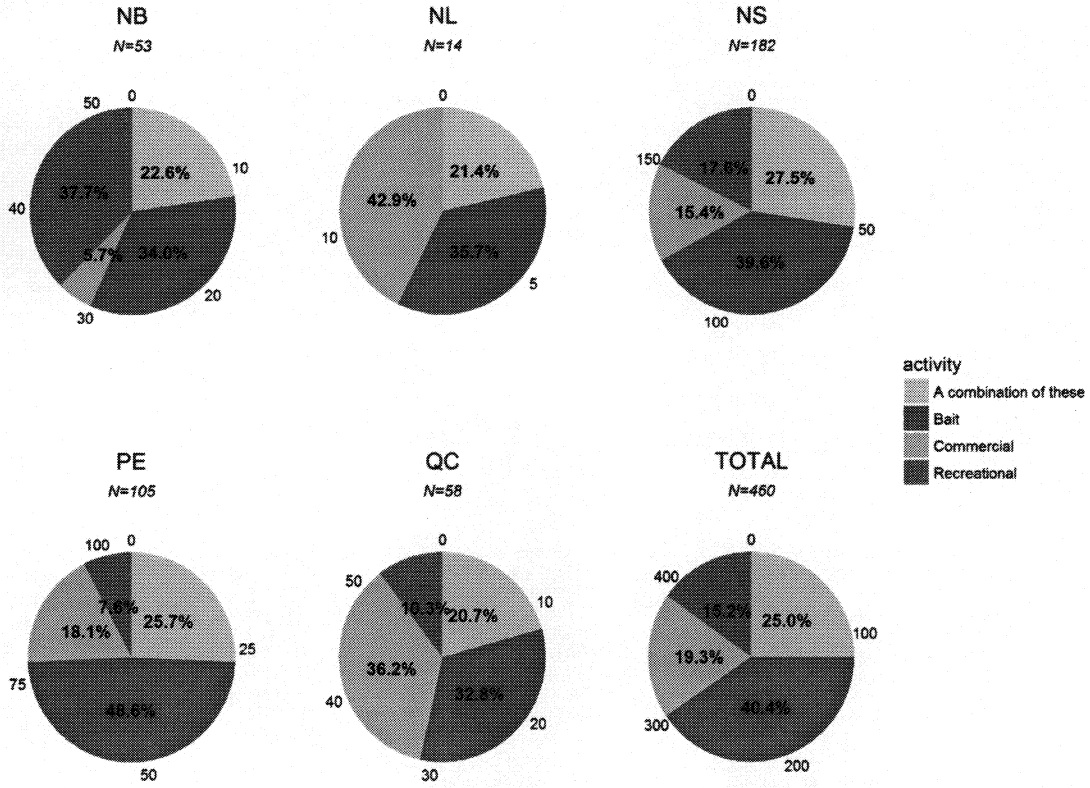


Figure 2: Pie plots by province (NB; New Brunswick, NL; Newfoundland, NS; Nova Scotia, PE; Prince Edward Island, QC; Quebec) and for the whole Eastern Canadian coast (TOTAL) of the activities of Canadian Atlantic mackerel fishers (percentages of abundance).

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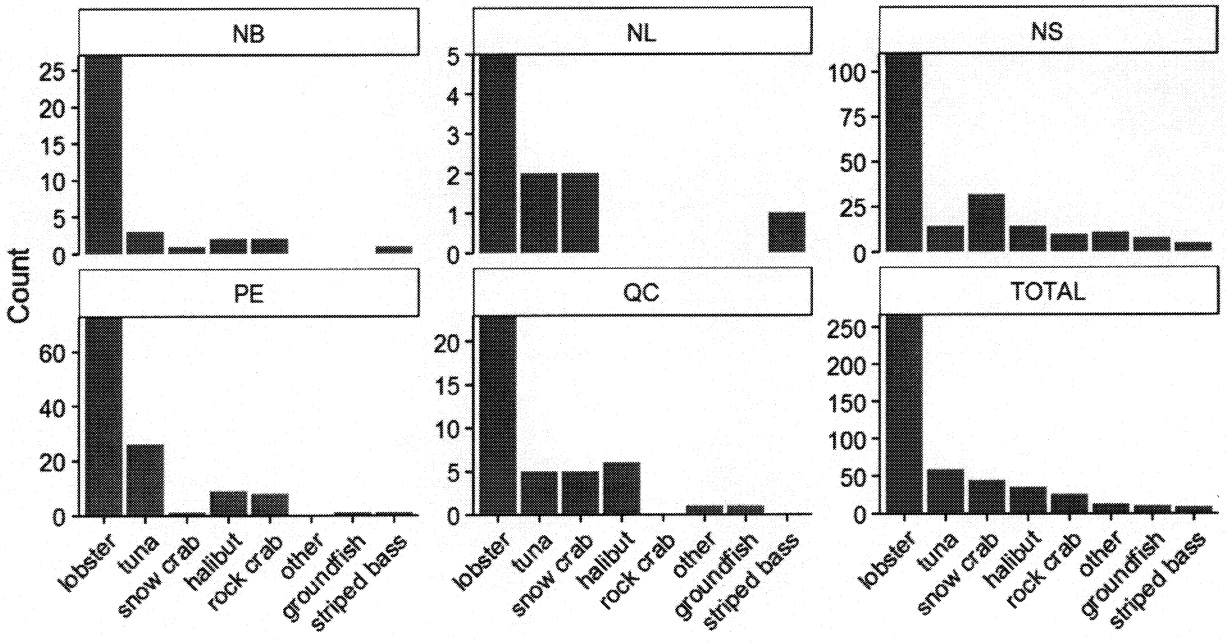


Figure 3: Barplots of the number of fishermen that use mackerel to bait other commercial species, by province (NB; New Brunswick, NL; Newfoundland, NS; Nova Scotia, PE; Prince Edward Island, QC; Quebec) and for the whole Eastern Canadian coast (TOTAL). The group "other" includes cod, eel, haddock, green crab, shrimp, whelk and mackerel used for longlining and trawl bait. One fisherman can use mackerel to bait several species, so that the total numbers are higher than the total number of survey participants.

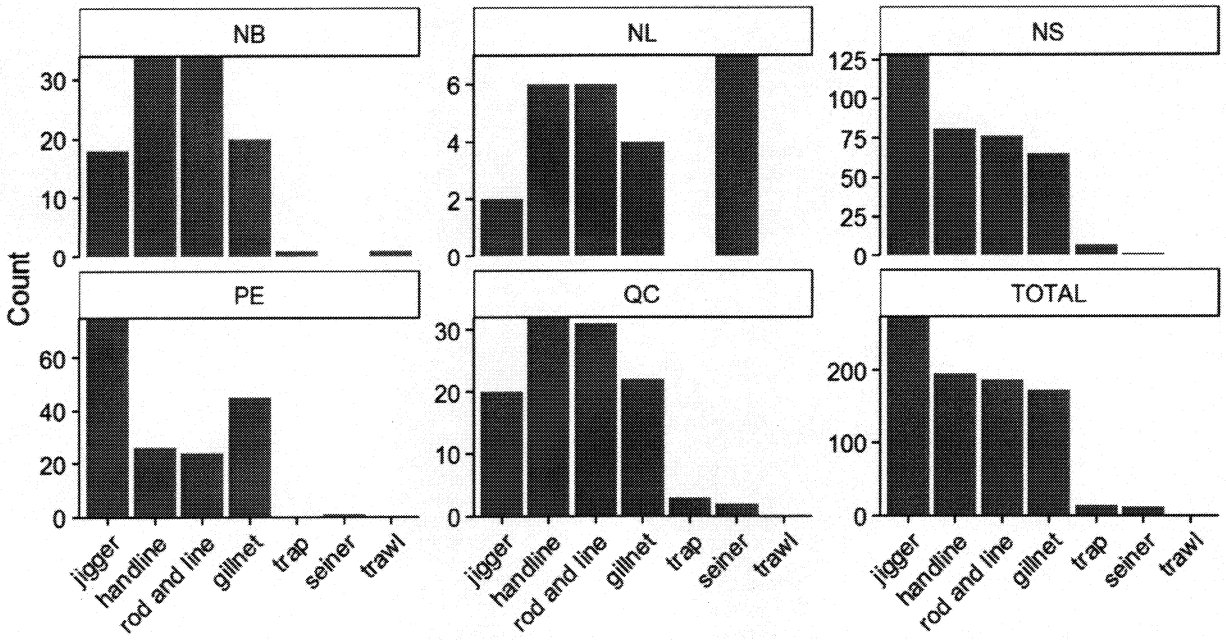


Figure 4: Barplots of the number of fishermen that use each gear type, by province (NB; New Brunswick, NL; Newfoundland, NS; Nova Scotia, PE; Prince Edward Island, QC; Quebec) and for the whole Eastern Canadian coast (TOTAL). One fisherman is not restricted to one gear type, so that the total numbers are higher than the total number of survey participants.

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Catch biomass and configuration

Out of the 2477t mackerel caught by survey participants, the recreational part was small to negligible for all provinces (<1.7%, Fig. 5). However, the survey was mainly aimed at licensed fishermen, so that this part might be largely underestimated. This idea is underpinned by the high average (92±172kg) and maximum (907kg) catch declared by recreational fishers, explained by the fishing gear used. That is, out of the 69 recreational fishers who responded 60 (87%) fish with rod and line, but 12 (17%) use a jigger, 2 (3%) a gillnet and 1 a handline (1%)(possibly in combination). Although recreational fishing is in some occasions thus indeed done on a semi-professional scale, the large majority are clearly rod and line fishers, a proportion that is even underestimated due to the hard to reach occasional wharf fishers.

Despite that about twice as much bait fishers as commercial fishers filled in the survey, at least half of the total catch was for commercial purposes (Fig. 5). Indeed, commercial fishers caught on average 21t (±31t, max: 158t) whereas this was much lower for bait fishers (3±8t, max: 91t). Yet again, commercial catch was most important in NL, bait in NS and recreational catch in NB. This is also reflected in the total catch declared per province (e.g. high for NL) in relation to the number of participants (N, e.g. low in NL).

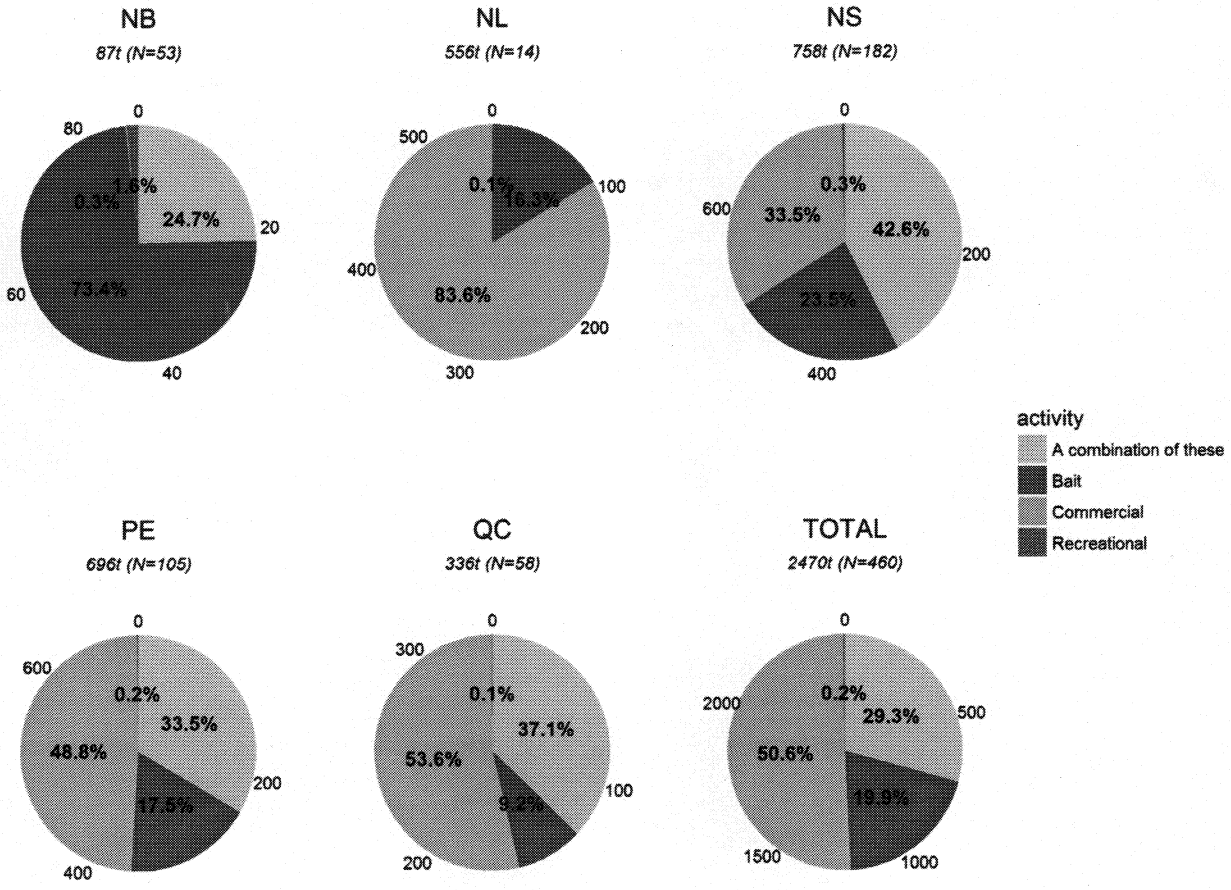


Figure 5: Pie plots by province (NB; New Brunswick, NL; Newfoundland, NS; Nova Scotia, PE; Prince Edward Island, QC; Quebec) and for the whole Eastern Canadian coast (TOTAL) of the activities of Canadian Atlantic mackerel fishers (percentages of catch biomass).

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One of the main goals of the survey was to estimate the proportion of the catch declared, discarded and used as bait. Only 70% of the participants who indicated their 2016 catch provided an approximation of their discards. The total biomass of mackerel returned to the sea was estimated to be 30t, or 1.9% of the catch (1563t, N=374), which is significantly higher than previously estimated for the Magdalen Islands (<0.2%, J. Aucoin, pers. comm.). But a large difference in discarding practice between fishers was noted; 54% (N=201) indicated they did not discard anything and 74% of the total discards (22t) were made by only 6 fishers who rejected between 1.4t and 4.9t of mackerel (between 2% and 75% of their catch). Two of them mentioned that they did so because those mackerel were undersized. The total percentage of discards might be underestimated as some respondents might not have declared or underreported this part.

Although from the results we could calculate that about 50% of the catch is bait (Fig. 6), this number might be somewhat underestimated. For example, some of the commercial fishers indicated that none of their catch is officially bait, but a middleman might still sell those mackerel for bait use. There is also a reasonable difference between areas, as mackerel is relatively more important as bait in NB, PE and NS.

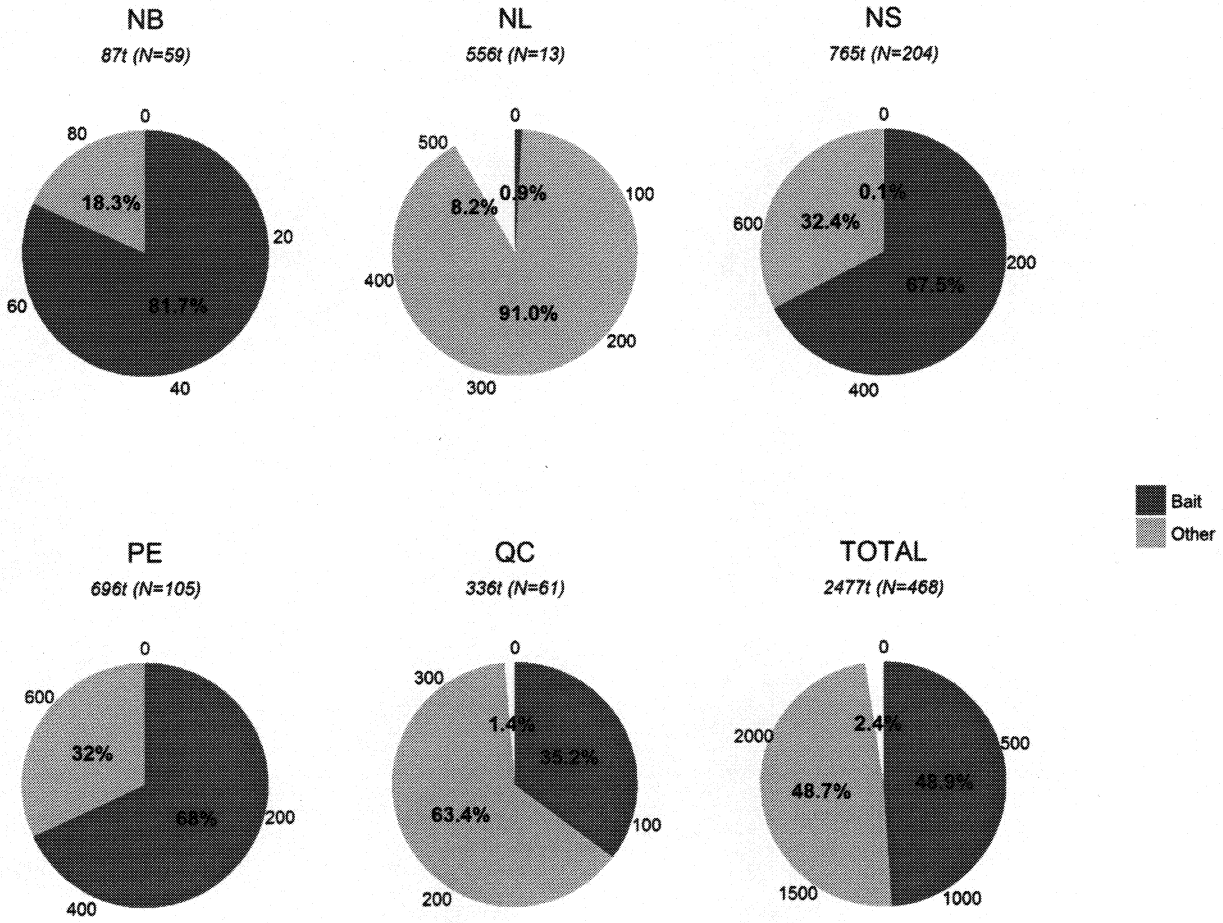


Figure 6: Percentage of catch used as bait (red) or other purposes (grey) by province (NB; New Brunswick, NL; Newfoundland, NS; Nova Scotia, PE; Prince Edward Island, QC; Quebec) and for the whole Eastern Canadian coast (TOTAL). White areas in the pie plots are unclassified catch. Mackerel sold by commercial fishers to a middleman can be categorised as "Other" but still end up as bait.

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Because bait mackerel constitutes an important fraction of the catch, a significant part of the landings are unreported (64.2%, Fig. 7), so that actual catch was about twice the declared catch. However, this percentage should be corrected for the biased sampling of the provinces, as NL is underrepresented and has almost no unreported catch (this corresponds with current knowledge, Addison et al. 2013). In contrast to NL, NB had almost no reported landings because of the minor importance of commercial fishing.

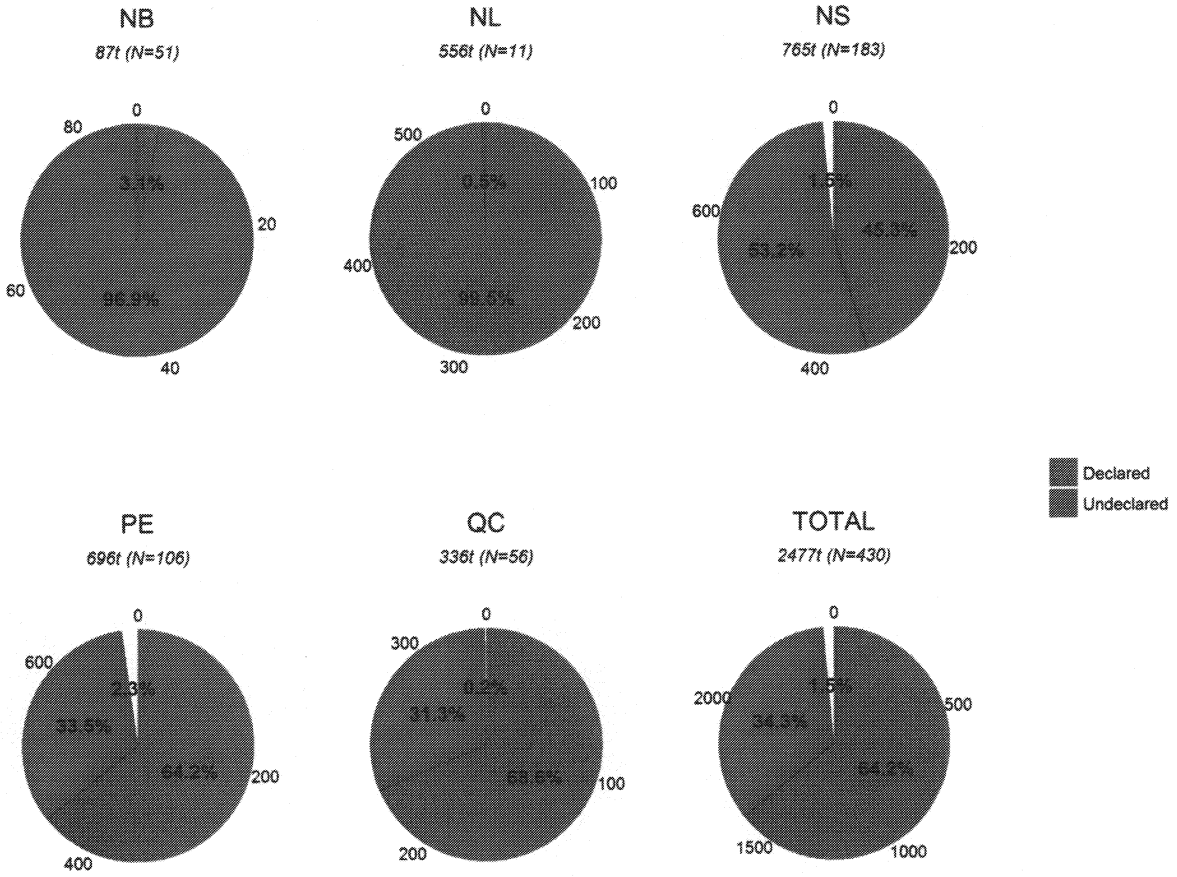


Figure 7:Percentage of catch reported (green) and unreported (red) by province (NB; New Brunswick, NL; Newfoundland, NS; Nova Scotia, PE; Prince Edward Island, QC; Quebec) and for the whole Eastern Canadian coast (TOTAL). White areas in the pie plots are unclassified catch.

We were also interested in knowing how the proportion of undeclared catch evolved over the last decades. Because many participants wrongly interpreted this question, results will not be presented here. However, some changes in the ratio of unreported to reported catch were underlined as comments. In Quebec bait license holders are since 2014?? obliged to fill in all catch in their logbook and to report these catches, so the proportion of unreported catch was likely larger in the past. This is in contrast to PEI, NS and NB, where most arguments pointed towards a currently lower reporting rate. For certain fishers, this was because selling fresh mackerel to buyers has not been economic for some time, more money can be made from selling directly to fishermen, buyers are less interested, it is possible to freeze own bait and it is not necessary anymore the sell mackerel commercially as a side income to lobster fishing as lobster landings and price increased. Also, the ratio of declared to undeclared catches is surely

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unstable, for example because an increase in catch will foremost be used to satisfy bait needs, and only the spillover will be sold to buyers and thus declared.

Predicting a new cohort

Fishermen did not unequivocally agree whether or not in 2016 a clearly larger proportion of small mackerel was present, which would be a forerunner of the arrival of a new cohort. Nonetheless, 49% believed there was an upsurge of small individuals, contrary to 37% that thought different and to 13% that were unsure. The answers might however have depended on the fishing area if small fish were heterogeneously distributed, the fishing gear if size selectivity differs or the fishing activity if recreational fishers are not able to distinguish such change. But no spatial gradient is visible in the answers (Fig. 8) and when recreational fishers were removed the percentage of fishers answering positively declined (46.1%). Conversely, a clearly visible increase in smaller fish was noticed more frequently by fishers using a handline, a jigger or a rod and line, whereas gillnet fishers most often did not identify such a rise. For example, out of the 32 participants that exclusively use gillnets and filled in the question related to small mackerel, only 6 (19%) answered positive. Additionally, the percentage of participants having observed a large amount of young mackerel might be higher because of stakeholder bias. According to the comment of one respondent, fishermen might not have mentioned the presence of abundant small fish because they believed that an important decrease in average fish size would lead to a fishery shut down or a TAC decrease. Thus, although there is no undeniable confirmation that a new cohort entered the fishery, there is enough leverage to continue to pursue this hypothesis.

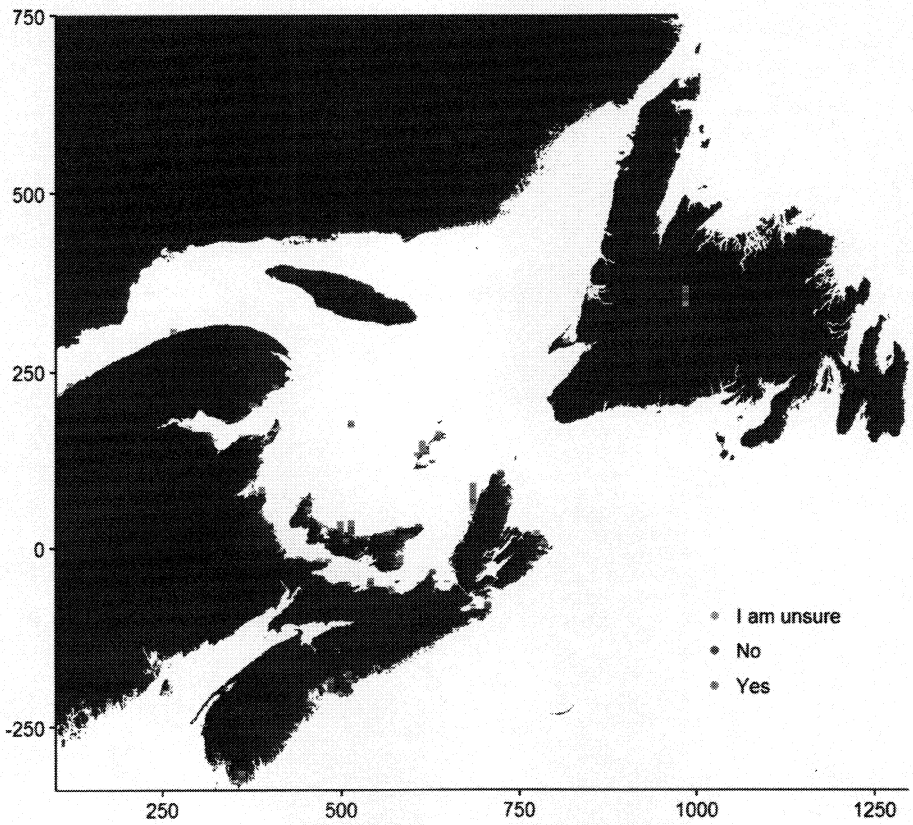


Figure 8: Map of West Atlantic Canada with a stacked barplot (counts) for each port with the number of fishermen indicating whether in 2016 a clearly larger proportion of small mackerel was present (yes, no or unsure).

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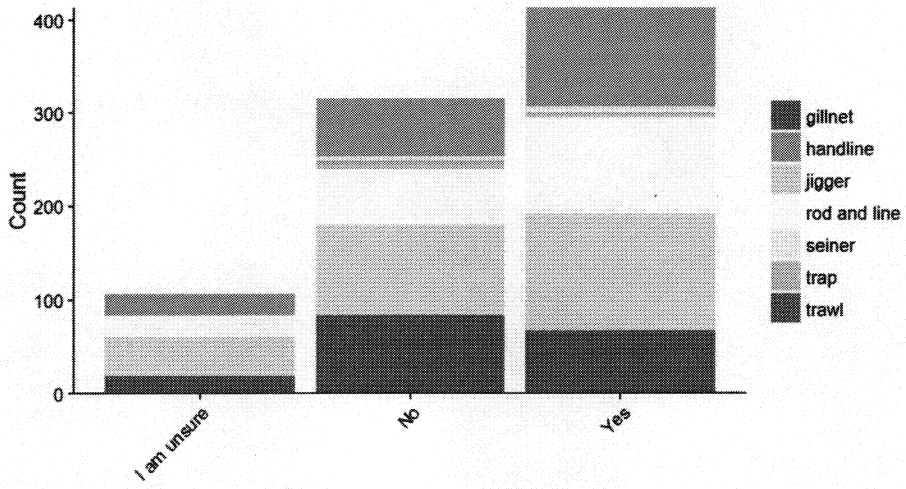


Figure 9: Stacked barplot of the numbers of each answer by fishing gear to the question: "In 2016, did you capture a clearly larger proportion of small mackerel?" Note that multi-gear fishers are counted more than once and that a fisher indicated as e.g. a jigger in the plot might thus also be a handliner.

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APPENDIX

Informal survey of Canadian Atlantic mackerel commercial, recreational and bait fishers

I am a post-doctoral researcher from Belgium working in Canada on northwest Atlantic mackerel, together with scientists at the Maurice-Lamontagne Institute (DFO). In order to better estimate the size of the Canadian mackerel stock, I would like to have first-hand experiences of commercial, recreational and bait mackerel fishers on their activities. With better estimates of the mackerel stock size and its productivity I hope to be able to provide better management advice and stock predictions.

The survey consists of 6 small parts and for most of the questions (about 12) there is space to write an explanation if you wish (and appreciated!). Unless specified otherwise, all questions concern the 2016 fishing season.

This survey is completely anonymous and personal identifying information is not even collected by me.

I would like to thank you in advance for filling in this survey. Please feel free to contact me by email or phone in addition to the survey.

Elisabeth Van Beveren
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418 775-0563

Enquête informelle sur la pêche au maquereau au Canada

Je suis une scientifique postdoctorale Belge, venue au Canada pour travailler sur le maquereau du nord-ouest de L'Atlantique, avec des chercheurs de l'institut Maurice-Lamontagne (MPO). Pour améliorer l'estimation de la taille du stock canadien, j'aimerais recueillir des renseignements de première main sur la pêche commerciale, récréative et pour appât. Ceci me permettra d'améliorer les prédictions et les avis scientifiques pour la gestion du stock.

L'enquête est divisée en 6 petites parties, avec pour la majorité des questions (environ 12 en totale) suffisamment d'espace pour fournir une explication si souhaité (très apprécié!). Sauf indication contraire, toutes les questions concernent la saison de pêche de 2016.

L'étude est anonyme, et de l'information personnelle ne sera jamais demandée.

Je termine ce message en vous remerciant à l'avance de bien vouloir participer à ce sondage. Si vous avez des questions ou de plus amples informations, n'hésitez pas à me contacter.

Elisabeth Van Beveren
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1) Fishing activity

Q: How would you classify your fishing activity?
(Multiple choice)

- o Commercial
- o Bait
- o Recreational
- o A combination of these
- o Other: ...

⇨ If Bait:
Q: Please indicate the species for which you catch bait mackerel
(Checkboxes)
  - o Snow Crab
  - o Lobster
  - o Rock crab
  - o Tuna
  - o Striped bass
  - o Other: ...

⇨ If a combination of these:
Q: Could you provide us an approximation of the proportion of catch attributed to each of your fishing activities? (e.g. 10% of the mackerel I caught was during bait fishing and 90% when fishing commercially)
(Open answer)

Activité de pêche

Q: Comment classifierez-vous votre activité de pêche?

- o Commerciale
- o Appât (Boëtte)
- o Récréative
- o Une combinaison
- o Autre: ...

⇨ Si appât:
Q: Indiquez pour quelles espèces vous pêchez le maquereau comme appât.

  - o Crabe de neige
  - o Homard
  - o Crabe de roche
  - o Thon
  - o Bar rayé
  - o Autre: ...

⇨ Si une combinaison:
Q: Pourriez-vous nous indiquer approximativement quelles proportions de vos prises résultent de quelles activités? (par exemple, 10% des maquereaux ont été capturés pendant la pêche pour appât, et 90% pendant la pêche commerciale)

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2) Gear type

Q: What gear type do you use? (Checkboxes)

- o Tuck-Ring Seine
- o Seiner <65' (<19.8m)
- o Seiner >65' (>19.8m)
- o Other Seine
- o Gillnet
- o Trap
- o Jigger (including mechanized jigger)
- o Rod and line
- o Other: ...

Type d'engin

Q: Quelle type d'engin utilisez-vous?

Senne "Tuck"
Senne Bourse <65' (<19.8m)
Senne Bourse >65' (>19.8m)
Autres Sennes
Filet maillant
Trappe
Turlutte
Ligne à main
Autres: ...

3) Area

Q: What is the region were you did most of your fishing? (Open answer)

Q: Where were the fish landed? (Open answer)

Zone de pêche

Q: Dans quelle région est-ce que vous pêchez habituellement?

Q: Où est-ce que vous débarquez les maquereaux?

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4) Catch weight

The next couple of questions are about the quantity of mackerel caught, and what happened with them afterwards. I am aware that it might be very hard to provide an exact number, but even a rough estimate would be of great help (especially if this is commented in the answer!). Also, although all questions are related to the 2016 fishing season, it would be extremely helpful if the question could, if possible, also be answered for the 2 previous years.

Q: How much mackerel did you approximately catch during the 2015 and 2016 seasons (lb per season)? (This might for example include catch that was not landed, used as bait or for personal consumption).
(Open answer)

Q: Could you please indicate for what percentage of your total catch (or lb) you obtained purchase slips? (Open answer)

Q: About how much of the total catch (lb or %) was used as bait (for personal or someone else's use)?
(Open answer)

Q: Is there a part that might not have been landed? Would you be able to provide an estimate of this (lb or %)?
(Open answer)

Le poids de captures

Les questions suivantes concernent le poids des prises, et ce qu'il adviendra par la suite. Je suis consciente de la difficulté de spécifier des quantités exactes, mais même une estimation approximative a de la valeur (et particulièrement si ceci est noté!). Toutes les questions concernent 2016, mais je serais aussi très reconnaissante pour de l'information sur les deux années précédentes.

Q: Combien de maquereaux avez-vous capturé pendant la saison de 2015 et 2016 (lb par saison)? (Ceci pourrait par exemple inclure des captures non débarquées, utilisées comme appât ou pour consommation personnelle)

Q: Pourriez-vous indiquer le pourcentage des prises totales (ou les livres) pour lequel vous avez reçu des bordereaux d'achat?

Q: Quel pourcentage (ou lb) des prises totales a été utilisé comme appât (pour usage personnelle ou non)?

Q: Est-ce que il y avait une partie des prises qui n'a pas été débarquée? Pourriez-vous nous donner une estimation (lb ou %)?

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5) Experience

Q: For how many years have you been fishing mackerel?
(Open answer)

Q: Do you believe that the proportion of declared landings (for which you got a purchase slip) changed over those years (e.g. increased or decreased)?
(Open answer)

Q: In 2016, did you capture a clearly larger proportion of small mackerel?
(yes/no/I am unsure)

Expérience

Q: Depuis combien d'années pêchez-vous le maquereau?

Q: Croyez-vous que la proportion des débarquements déclarés (pour laquelle vous avez reçu un bordereau d'achat) a changé pendant ces années (par exemple ont-ils baissé ou monté)?

Q: En 2016, est-ce que vous avez pêché une plus grande proportion de petits maquereaux?
(oui/non/je doute

Comments

Q: If you have any comments about the survey or mackerel fishing, feel free to note them down below.
(Open answer)

Commentaires

Q: Si vous avez encore des remarques concernant l'enquête ou de l'information sur votre activité de pêche, n'hésitez pas à les formuler ici.

Confirmation message

Thank you very much for your participation in this survey, your knowledge will be of great help to me. You should note that, whichever the fishery, a more complete accounting of catches will allow scientists to provide better stock assessments. I repeat that this poll is completely anonymous.

Je vous remercie beaucoup pour l'information que vous nous avez donnée. Sachez que, peu importe la pêche, l'évaluation des stocks faite par les scientifiques sera supérieure avec une meilleure connaissance des captures. Je répète que ce sondage est tout à fait anonyme.

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Working paper

Région du Québec

Évaluation analytique du maquereau bleu (*Scomber scombrus* L.) des sous-régions 3-4 de l'OPANO: utilisation d'un modèle censuré pour prendre en compte les captures non-déclarées

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Foreword

This series documents the scientific basis for the evaluation of aquatic resources and ecosystems in Canada. As such, it addresses the issues of the day in the time frames required and the documents it contains are not intended as definitive statements on the subjects addressed but rather as progress reports on ongoing investigations.

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INTRODUCTION

Dans l'Atlantique Nord-Ouest, le maquereau bleu (*Scomber scombrus* L.) est distribué du golfe du Saint-Laurent à la Caroline du Nord et fait l'objet d'une pêche commerciale dans les provinces maritimes, à Terre-Neuve et au Québec (sous-régions 3 et 4 de l'OPANO), ainsi que dans les eaux américaines (sous-régions 5 et 6). Cette pêche se déroule généralement près des côtes à l'aide du filet maillant, de la turlutte, de la ligne à la main, de la senne et de la trappe. Les débarquements canadiens de maquereau bleu sont grandement sous-estimés en raison des captures non rapportées, principalement dans la pêche d'appâts pour utilisation personnelle ou vendus de pêcheur à pêcheur. De plus, les prises de la pêche récréative, qui se déroule au cours des mois d'été le long de la côte atlantique, ne sont pas rapportées, tout comme les rejets de petits maquereaux. Ce problème des captures non comptabilisées a été soulevé à de nombreuses reprises au cours des évaluations précédentes. En attendant qu'un meilleur contrôle de la cueillette des données de pêche ne soit établi, il est nécessaire de prendre en compte l'incertitude sur les captures manquantes au sein de modèles statistiques développés spécifiquement à cette fin.

L'aire de distribution du maquereau bleu dans l'Atlantique Nord-Ouest est caractérisée par la présence de deux zones de ponte. En eaux canadiennes, la ponte se déroule principalement dans le sud du golfe du Saint-Laurent (Division 4T de l'OPANO) au cours des mois de juin et juillet, à la suite d'une migration qui débute tôt au printemps dans la région du golfe du Maine et du Banc Georges (Sette 1943, Arnold 1970). Pour cette raison, un relevé des œufs est réalisé annuellement dans cette région dans le cadre du Programme de Monitorage de la Zone Atlantique (PMZA) dans le but de calculer un indice relatif de la biomasse reproductrice. Cet indice a été utilisé depuis 1983 pour suivre l'évolution de l'abondance relative du maquereau bleu en eaux canadiennes.

Selon ce relevé, cet indice aurait été très élevé entre 1984 et 1994 avec des valeurs annuelles pouvant atteindre plus de 500 000 t (Grégoire et al. 2013a). Au cours de la même période, les débarquements annuels moyens se chiffraient à 24 441 t (Grégoire et al. 2013b). Cet écart important entre l'indice d'abondance et les débarquements représentait un obstacle majeur à l'utilisation d'une analyse séquentielle de population (ASP) car la reconstruction précise des cohortes par ce type d'analyse n'est envisageable que si le taux instantané de mortalité naturelle M est faible par rapport au taux de mortalité par la pêche F (Hilborn et Walters 1992, Mertz et Myers 1997). Cependant, l'indice de la biomasse reproductrice a connu une diminution marquée à partir du milieu des années 90 alors qu'on assistait à une augmentation significative des débarquements commerciaux (Grégoire et al. 2013b). Ces nouvelles conditions des niveaux d'abondance et de débarquements ont permis d'utiliser une ASP pour évaluer l'abondance du maquereau bleu en eaux canadienne, calibrée au moyen de l'indice d'abondance provenant du relevé des œufs.

La dernière évaluation du maquereau des sous-régions 3 et 4 remonte à l'hiver 2014. Le logiciel qui était utilisé pour l'ASP, « ICA » est devenu désuet et ne fonctionne plus sur les systèmes récents. De plus, il ne pouvait prendre en compte les captures manquantes. La Direction de la gestion des pêches et de l'aquaculture a sollicité un avis scientifique du maquereau bleu des eaux canadiennes pour les saisons de pêche 2017 et 2018. En prévision de cette évaluation, notre objectif est de développer un nouveau modèle de dynamique de population et des prises-à-l'âge afin d'estimer l'état de la ressource et d'intégrer pleinement les différentes sources d'incertitude, y compris l'estimation des captures manquantes, et permettre le calcul de points de référence robustes.

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MÉTHODES

1. SOURCE DES DONNÉES

Dans le but de comparer le nouveau modèle (TMB) à l'ancien (ICA), nous avons utilisé pour cet exercice les mêmes données d'entrée que lors des évaluations de 2012 et 2014, à quelques exceptions près.

1.1. Débarquements et capture à l'âge

Les débarquements de la pêche commerciale des sous-régions 3 et 4 de l'OPANO ont été tirés des plus récents fichiers ZIFF (Zonal Interchange File Format). Le maquereau est l'objet d'un suivi annuel par le programme d'échantillonnage commercial. Des mesures de longueur et des échantillons biologiques sont recueillis dans les principaux ports de débarquements pour les principaux engins de pêche et les otolithes sont prélevés pour la détermination de l'âge. Les mesures de longueur ont été regroupées par division et engin de pêche et pondérées par les débarquements correspondants. La capture à l'âge canadienne utilisée ici est identique à celle de Grégoire *et al.* (2014b). La période couverte s'étend de 1968 à 2013 et inclut les âges 1 à 10^{+} (Tableaux 1 et 2). Les rejets en mer de la pêche commerciale à la ligne et les prises récréatives (pêche très intense à certains endroits) ne sont pas comptabilisés de même que certaines des captures utilisées en guise d'appât (ex : utilisation personnelle ou ventes directes entre pêcheurs).

1.2. Poids à l'âge

Les poids à l'âge des captures commerciales (mi-année, Tableau 3) sont utilisés pour convertir la capture à l'âge, exprimée en nombre, en biomasse (Tableau 4). Cette dernière, c'est-à-dire la somme annuelle des âges, a été comparée aux débarquements commerciaux dans le but de détecter des erreurs possibles de groupement ou de pondération qui se seraient produits lors du calcul de la capture à l'âge. Les poids à l'âge ont été convertis en poids de début d'année (1er janvier, Tableau 5) à l'aide de la méthode Rivard, version 2.0.0 (NOAA Fisheries Toolbox 2008).

1.3. Maturité à l'âge

Les maturités à l'âge, c'est-à-dire les proportions de poissons matures à l'âge (Tableau 6), ont été calculées à partir de l'analyse des échantillons commerciaux récoltés au moment de la ponte (juin et juillet) depuis 1974. Ces maturités ont été ajustées à l'aide de la procédure LOGISTIC de SAS (SAS Institute 2008). Comme la capture à l'âge débute en 1968, il a été convenu d'appliquer les maturités à l'âge de 1974 à la période 1968–1973. Les biomasses reproductrices à l'âge ont été déterminées par le produit des maturités à l'âge par les biomasses à l'âge correspondantes.

1.4. Indice de la biomasse reproductrice

Les valeurs annuelles de l'indice de la biomasse reproductrice des relevés des œufs réalisés depuis 1979 sont présentées au Tableau 7. Aucun relevé n'a été réalisé en 1980, 1981, 1982,1995 et 1997, et des relevés ne couvrant qu'une partie seulement de l'aire de ponte ont eu lieu en 1999 et 2001. Ces relevés ont été exclus de la présente évaluation tout comme celui de 2006 qui a été réalisé à la toute fin de la saison de ponte. Il faut noter que lors des évaluations de 2012 et 2014, seuls les relevés effectués depuis 1996 avaient été inclus dans le modèle analytique. Pour cet exercice, nous avons utilisé la série entière des relevés.

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2. ÉVALUATION ANALYTIQUE

Les évaluations précédentes n'utilisaient que les prises déclarées et par conséquent étaient soupçonnées de sous-estimer la taille réelle du stock de maquereaux. Plusieurs approches ont été utilisées par le passé pour tenter de prendre en compte les incertitudes sur les prises (p. ex. utiliser une échelle relative, Cook 1997, ou présumer une erreur d'observation sur les prises, Nielsen et Lewy 2001). Une approche alternative relativement récente consiste à utiliser des modèles dits « censurés » dans lesquels les prises déclarées sont considérées explicitement comme biaisées. La valeur exacte des prises supplémentaires est inconnue, mais l'information disponible est utilisée, par exemple pour imposer des limites inférieures et supérieures. Cette méthode a été développée initialement par Hammond et Trenkel (2005) dans un modèle de surplus de production. Bousquet et al. (2010) ont adapté cette approche à des modèles structurés par l'âge et Cadigan (2016a) l'a intégrée dans un modèle d'espace-état.

L'approche des modèles censurés revient à quantifier l'incertitude due aux biais présents dans les prises. Pour ceci, il est nécessaire de déterminer des valeurs minimales et maximales. Les modèles censurés semblent robustes même lorsque l'estimation de ces limites est approximative, par exemple en utilisant les prises déclarées multipliées par un coefficient qui peut être choisi de manière arbitraire ou intuitive. Bousquet et al. (2010) ont obtenu des résultats satisfaisant même lorsqu'ils ont placé la limite supérieur à l'infini, mais il est probable que certains modèles soient plus sensibles au choix de ces valeurs et qu'une limite trop élevée puisse conduire à des inférences erronées. C'est pourquoi nous avons tenté d'informer ces limites, dans la mesure du possible, au moyen des informations disponibles sur l'industrie de la pêche à l'appât (voir Annexe). Cette approche basée sur les besoins en appât a été confirmée par l'utilisation d'un sondage auprès des pêcheurs, qui a aussi permis de se renseigner sur les pêches récréatives (voir le document de recherche Van Beveren et al., cette rencontre).

Les évaluations analytiques précédentes avaient été réalisées à l'aide du logiciel ICA (Integrated Catch at Age), version 1.2 (Patterson et Melvin 1995) qui était couramment utilisé pour évaluer certains stocks de hareng (*Clupea harengus* L.) et le stock de maquereau bleu du Nord-Est de l'Atlantique. Entre autres avantages, ICA permettait l'utilisation d'un indice d'abondance non désagrégé à l'âge comme celui du relevé des œufs. Cependant, le logiciel ICA est maintenant considéré comme désuet car son développement n'est plus soutenu et il ne fonctionne pas sur les systèmes d'exploitation récents. De plus, sa forme ne permettait pas l'inclusion d'une approche censurée permettant de quantifier l'incertitude sur les captures manquantes. Nous avons donc opté pour le développement d'un modèle fait sur-mesure pour l'évaluation du maquereau bleu, qui soit transparent, flexible et permettant l'inclusion de l'approche censurée.

2.1. FORMULATION DU MODÈLE

2.1.1. Généralités

Le modèle a été développé dans Template Model Builder (TMB, Kristensen et al. 2016), une librairie R permettant d'ajuster rapidement des modèles non-linéaires complexes et qui incluent des effets aléatoires. TMB permet le calcul de la fonction à optimiser. Cette optimisation se fait dans R et permet l'estimation des paramètres.

Toutes les équations d'observation sont sur une échelle logarithmique et on présume que les erreurs d'observation et de processus sont distribuées de manière normale. Les variables aléatoires sont la mortalité par la pêche F_y et l'abondance $N_{a,y}$, comme dans le modèle de Nielsen et Berg (2014).

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2.1.2. Abondance à l'âge

Le modèle est structuré par âge pour les années y = 1, ..., Y et inclut les classes d'âge a = 1, ..., A. Tous les paramètres du modèle sont donnés au tableau 8. Le cadre du modèle présume un déclin exponentiel de l'abondance des cohortes associé aux taux de mortalité ($Z_{a-1,y-1}$) (voir Eq. 1.2). L'abondance à l'âge 1 (ici considérée comme le recrutement) est calculée comme une fonction de la biomasse reproductrice (SSB) et d'un facteur environnemental (Eq 1.1), et l'âge A constitue un groupe « plus » (Eq. 1.3), de sorte que :

$$N_{a,y} = \begin{cases} f(SSB_{y-1}, E_{y-1}), & \text{a = 1,} \quad (1.1) \\ N_{a-1,y-1}\exp(-Z_{a-1,y-1} + \delta_{a,y}), & \text{a = 2, ..., A-1,} \quad (1.2) \\ N_{a-1,y-1}\exp(-Z_{a-1,y-1} + \delta_{a,y}) + N_{a,y-1}\exp(-Z_{a,y-1} + \delta_{a,y}), & \text{a = A,} \quad (1.3) \end{cases}$$

où δ est l'erreur de processus (voir ci-dessous). L'abondance à l'âge pour la première année a été estimée de manière libre (sans contrainte). La biomasse reproductrice SSB est calculée par la somme des produits de l'abondance, le poids et la proportion d'individus matures pour chaque âge $SSB_y = \sum_{y=1}^{Y} N_{a,y} Weight_{a,y} PropMature_{a,y}$.

2.1.3. Mortalité

La mortalité totale (Z) et la somme des mortalités naturelles et dues à la pêche $Z_{a,y} = F_{a,y} + M_{a,y}$. Nous avons utilisé une mortalité F séparable : $F_{a,y} = F_a F_y$. Le vecteur des mortalités par la pêche annuelles F_y a été modélisé au moyen d'une marche aléatoire avec variance $\sigma_{F_y}^2$. Nous avons présumé que la mortalité par la pêche était constante pour les âges 8 et plus, de manière à réduire le nombre de paramètres F_a à estimer.

Lors de l'évaluation de 2012, les mortalités naturelles (M) pour tous les groupes d'âges et toutes les années avaient été fixées à 0,2 (Grégoire *et al.* 2014c). Pour l'évaluation de 2014, des valeurs (préliminaires) de M avaient été calculées selon la relation de Gislason *et al.* (2010) basée sur les paramètres L_{inf} et K du modèle de croissance de von Bertalanffy. Les paramètres de croissance et la méthodologie employée pour le calcul des mortalités naturelles sont présentés respectivement dans Grégoire et Girard (2014) et Grégoire et McQuinn (2014).

Pour l'exercice présent, M été fixé à 0.2 car les fortes variations annuelles présentes lorsque la méthode de Gislason et al. (2010) était utilisé paraissaient peu réalistes.

2.1.4. Erreur de processus

Une erreur dite « de processus » est souvent inclue dans les modèles modernes d'évaluation de stocks (Maunder et Piner 2014). Nous avons inclus dans le modèle des erreurs de processus sur les abondances N pour tenir compte des irrégularités causées par la migration et les variations interannuelles de mortalité naturelle (e.g. Gundmundsson and Gunnlaugsson 2012). Nous avons utilisé pour ce faire une structure d'erreur pour N similaire à celle que Cadigan (2016a) a utilisé pour M. Notre prémisse est que les cohortes proches en années et en âge sont plus susceptibles d'être influencées par les mêmes processus (à l'exception de l'âge 1 de recrutement, pour lequel on s'attend à une plus grande variabilité naturelle). En conséquence, les δ ont une distribution normale stationnaire dérivée d'un processus autocorrélatif avec un lag de 1, qui opère sur les années et les âges :

$$\mathrm{Cov}(\delta_{a,y}, \delta_{a-j,y-k}) = \frac{\sigma_\delta^2 \varphi_{\delta,age}^{j} \varphi_{\delta,année}^{k}}{(1-\varphi_{\delta,age}^2)(1-\varphi_{\delta,année}^2)}, \mathrm{Corr}(\delta_{a,y}, \delta_{a-j,y-k}) = \varphi_{\delta,age}^{j} \varphi_{\delta,année}^{k} \quad (2)$$

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Les indices *âge* et *année* indiquent les directions respectives de l'autocorrélation. Notez que dans les équations 1.2 et 1.3, pour des raisons pratiques, l'erreur de processus sur $N_{a,y}$ est et non $\delta_{a-1,y-1}$, comme on pourrait s'y attendre. Les erreurs de processus de la première année sont fixées à zéro car l'abondance durant cette année est estimée librement et qu'il n'y a pas d'information pour distinguer l'erreur de processus de l'erreur d'observation. Davantage d'informations sont disponibles sur l'implémentation de cette structure d'erreur dans Cadigan (2016a).

2.1.5. Recrutement

Afin de modéliser le recrutement à l'âge 1, nous avons essayé plusieurs approches (marche aléatoire, blocks, relations stock-recrutement et déviations par rapport à une moyenne ou un modèle linéaire) et plusieurs distributions d'erreurs (normale, log-normale, distributions de t et mixtes). Nous avons choisi une relation stock-recrue de Beverton-Holt avec l'inclusion d'un effet environnemental. Des études précédentes sur cette population ont montré que des évènements occasionnels de fort recrutement (probablement causés par des conditions environnementales favorables) pouvaient masquer la relation stock-recrutement sous-jacente (Duplisea et Grégoire 2014). Plourde et al. (2015) ont montré que certaines variables environnementales, et notamment le second axe d'une analyse de composante principale intégrant plusieurs facteurs environnementaux, expliquaient une grande partie de la variabilité interannuelle du recrutement du maquereau bleu. Nous avons donc inclus cet axe ACP comme co-variable dans la relation stock-recrutement, tout en laissant le coefficient environnemental être ré-estimé au sein du modèle (en suivant p. ex. Maunder et Watters 2003). Les hautes valeurs de cette co-variable environnementale correspondent à un bas débit d'eau douce du Saint-Laurent, une couche supérieure froide et un indice de glace de mer élevé. L'équation suivante a été utilisée pour la relation stock-recrutement, et inclut une erreur log-normale corrigée pour le biais (Maunder et Deriso 2003) :

$$f(SSB_{y-1}) = \frac{\alpha SSB_{y-1}}{1+\beta SSB_{y-1}} exp\left(\gamma E_{y-1}\left(\varepsilon_{R,y} - 0.5\sigma_R^2\right)\right) \quad (3)$$

où α et β sont les deux paramètres de la relation de Beverton-Holt, γ est un coefficient de mise à l'échelle de l'effet environnemental (E_y), $\varepsilon_{R,y}$ est la déviation annuelle du recrutement pour l'année y et $-0.5\sigma_R^2$ est le facteur de correction du biais log-normal. On présume que $\varepsilon_{R,y}$ est indépendant car il y a peu de signes d'autocorrélation présents.

2.1.6. Ajustement à l'indice des œufs

Comme lors des évaluations analytiques précédentes, le modèle a été ajusté à l'indice d'abondance de la biomasse reproductrice provenant du relevé des œufs. Pour relier l'abondance estimée par le modèle au vecteur des indices du relevé (I_y), l'équation d'observation suivante a été utilisée :

$$I_y = \sum_{y=1}^{Y} qN_{a,y}exp(-Z_{a,y}t_s)Weight_{a,y}PropMature_{a,y} \quad (4)$$

Où q est le coefficient de capturabilité du relevé et t_s le moment de l'année où le relevé a eu lieu, exprimé en proportion de l'année, afin d'ajuster la matrice des poids-à-l'âge au moment de la ponte.

2.1.7. Prises

Le total des prises estimées par le modèle suit l'équations des prises de Baranov :

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$$C_{a,y}=N_{a,y}\frac{F_{a,y}}{Z_{a,y}}\left[1-\exp(-Z_{a,y})\right] \quad (5)$$

Nous avons mentionné que les données disponibles sur les débarquements sont considérées comme largement sous-estimées. En revanche, nous n'avons pas de raison de penser que la composition en âge des échantillons provenant de la pêche commercial est également biaisée. C'est pourquoi nous avons relié les prises totales estimées et les prises-à-l'âge aux données d'observation de manière indépendante (en suivant Cadigan 2016a).

Les prises totales (en masse) ont été censurées de la même manière que dans Cadigan (2016b) : $C_y = \sum_{a=1}^{A} C_{a,y} Weight_{a,y}$. La vraisemblance (likelihood) des estimations des prises qui tombent entre les limites est ou approche 1, alors que les valeurs qui dépassent les limites se voient attribuer une vraisemblance de (ou approchant) 0. La transition continue entre ces deux cas est plus rapide pour des valeurs plus faibles du paramètreσ_C. Nous avons choisi (comme dans Cadigan 2016a), afin que les limites soient assez abruptes, pour s'assurer que $C_y \in (C_{oy}, U_y)$. La vraisemblance (en logarithme) des prises totales censurées, tous âges additionnés, avec une erreur de mesure log-normale, est donnée par :

$$l(C_{o1},\dots,C_{oY} \vee \theta) = \sum_{y=1}^{Y} log\left\{\phi_N\left[\frac{log(U_y/C_y)}{\sigma_C}\right] - \phi_N\left[\frac{log(C_{oy}/C_y)}{\sigma_C}\right]\right\} \quad (6)$$

où C_{oy} sont les prises annuelles observées (en masse), U_y est la limite supérieure annuelle des prises et ϕ_N est la fonction de distribution cumulative d'une variable aléatoire normale N(0,1). Pour améliorer la convergence du modèle, nous l'avons d'abord fait tourné en utilisant un niveau intermédiaire de prises $(C_{oy} + U_y)/2$ avec une erreur de mesure σ_C, et utilisé les valeurs des paramètres estimés comme valeurs initiales pour la version censurée du modèle. Cette procédure est justifiée de manière plus approfondie dans Cadigan (2016a).

Puisque la composition des prises-à-l'âge constitue une réponse ordinale ordonnée, nous avons choisi une approche fondée sur le logit « continuation ratio » (Cadigan 2016a). Nous avons remplacé les zéros dans les données par 0.5, et mis à l'échelle les prises de manière à ce que les totaux originaux soient les mêmes, puis nous avons ajusté les logits de la valeur des erreurs de mesure (σ^2_{crl}) pour les différents âges. Cette dernière transformation était nécessaire pour éviter que les résidus sur les âges aux deux extrêmes ne soient plus grands. Plutôt que d'utiliser des ajustements ad hoc comme dans Cadigan (2016a), nous avons estimé σ^2_{crl} pour les différents âges (σ^2_{crl-A} pour a=1, σ^2_{crl-B} for a=2, 8 et 9, σ^2_{crl-C} pour 1<a<8).

2.2. EXECUTION DU MODÈLE ET DIAGNOSTICS

La fiabilité du modèle a été vérifiée à l'aide de 400 simulations sur des pseudo-données générées aléatoirement (voir Deroba et al. 2014). Ces données ont été obtenues en simulant les indices du relevé et la matrice des poids-à-l'âge, en se basant sur les valeurs prédites par le modèle de base et leurs écarts-types, en utilisant les distributions d'erreur correspondantes. Cette procédure a aussi été utilisée par Nielsen et Berg (2014), et Cadigan (2016a).

Trois versions du modèle sont présentées été explorés : 1) pas de censure, où l'on présume que les prises réelles correspondent aux prises déclarées; 2) censure arbitraire, où l'on présume que la limite supérieure des prises est égale à 1.75 fois les prises déclarées (et la limite inférieure est égale aux prises déclarées); et 3), censure informée, où la limite supérieure des prises varie dans le temps et est calculée à partir des estimations des prises pour l'appât, des pêches récréatives et des rejets pour chaque région (voir Annexe ainsi que Van Beveren et al., cette rencontre).

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Une analyse de sensibilité a été réalisée pour chaque scénario censuré en multipliant les plages des valeurs possibles des prises ($\Delta C_y = U_y - C_{oy}$) par un coefficient allant de 0.5 à 1.5 par échelon de 0.05 (dénoté par ΔC_{rel}).

La présence d'un patron rétrospectif a été examinée pour la mortalité par pêche (moyenne des âges 3-5 pondérée par les abondances correspondantes), la population totale ('000) aux âges 1-10$^+$, le recrutement ('000) (âge 1) et les biomasses totale (t) et reproductrice (t) pour la période 2007–2012. La statistique de Mohn (Mohn 1999, Legault 2009) a été calculée pour chacun de ces paramètres.

RÉSULTATS ET DISCUSSION

1. COMPARAISON DES TROIS MODÈLES

Le tableau 8 montre les valeurs estimées des différents paramètres pour chacun des modèles. Comme prévu, les prises prédites sont plus basses pour le modèle non-censuré et suivent de près la valeur des prises déclarées. Il y a cependant une différence importante entre le modèle non-censuré et les modèles censurés, ainsi qu'entre ces deux derniers (Fig. 1). Les modèles censurés prédisent des prises plus élevées que les prises déclarées pour presque toutes les années. Le modèle avec une valeur arbitraire pour la censure, qui a en général la limite supérieure la plus élevée, prédit des prises plus élevées que le modèle utilisant une censure informée par l'enquête sur les prises non déclarées, à part pour les années récentes. Cependant, la patron général de la sous-estimation des prises est le même dans les deux cas. Par exemple, entre 1977 et 1995, les prises estimées sont proches de la limite supérieure, ce qui suggère que la proportion de prises non rapportées à cette époque était relativement élevée.

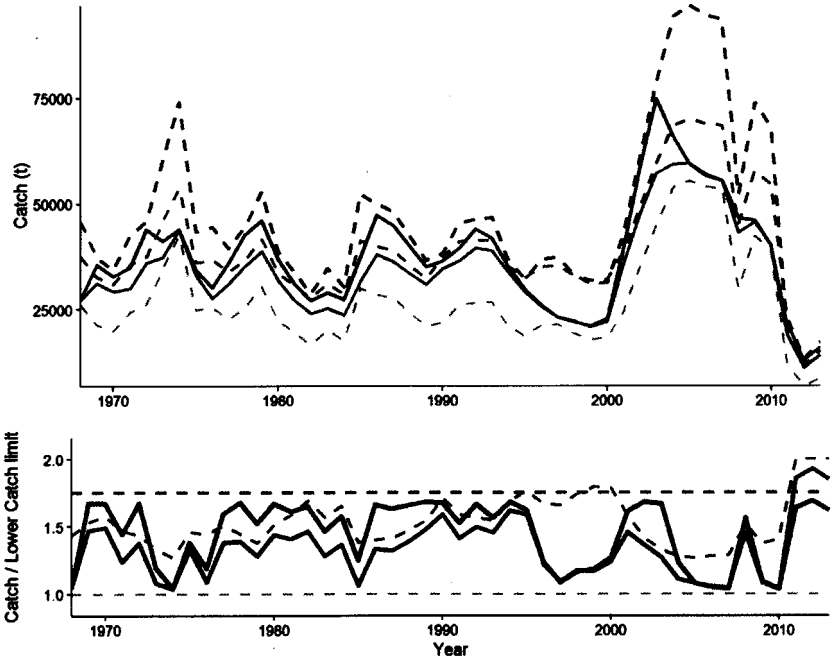


Figure 1. Estimation des prises (lignes continues) et limites de la censure (lignes pointillées) pour les deux modèles censures (rouge: arbitraire, vert: informé). La limite inférieure (grise) est la même dans les deux cas. Le panneau du haut montre les valeurs absolues et le paneau du bas montre les valeurs ramenées à un multiplicateur des prises déclarées.

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Malgré les différences entre les trois modèles sur les prises estimées, les valeurs annuelles et les patrons de la mortalité par la pêche (âges 1-10), ainsi que les erreurs de processus, sont généralement les mêmes (Fig. 2). Par contre, les modèles diffèrent quant aux estimations de **l'abondance, du recrutement, et de la biomasse reproductrice. L'approche censurée mène à** une augmentation marquée de la biomasse, en particulier avant 2000, quand la biomasse totale était significativement plus élevée. Les différences entre les deux modèles censurés sont plus faibles et dépendent de la période considérée.

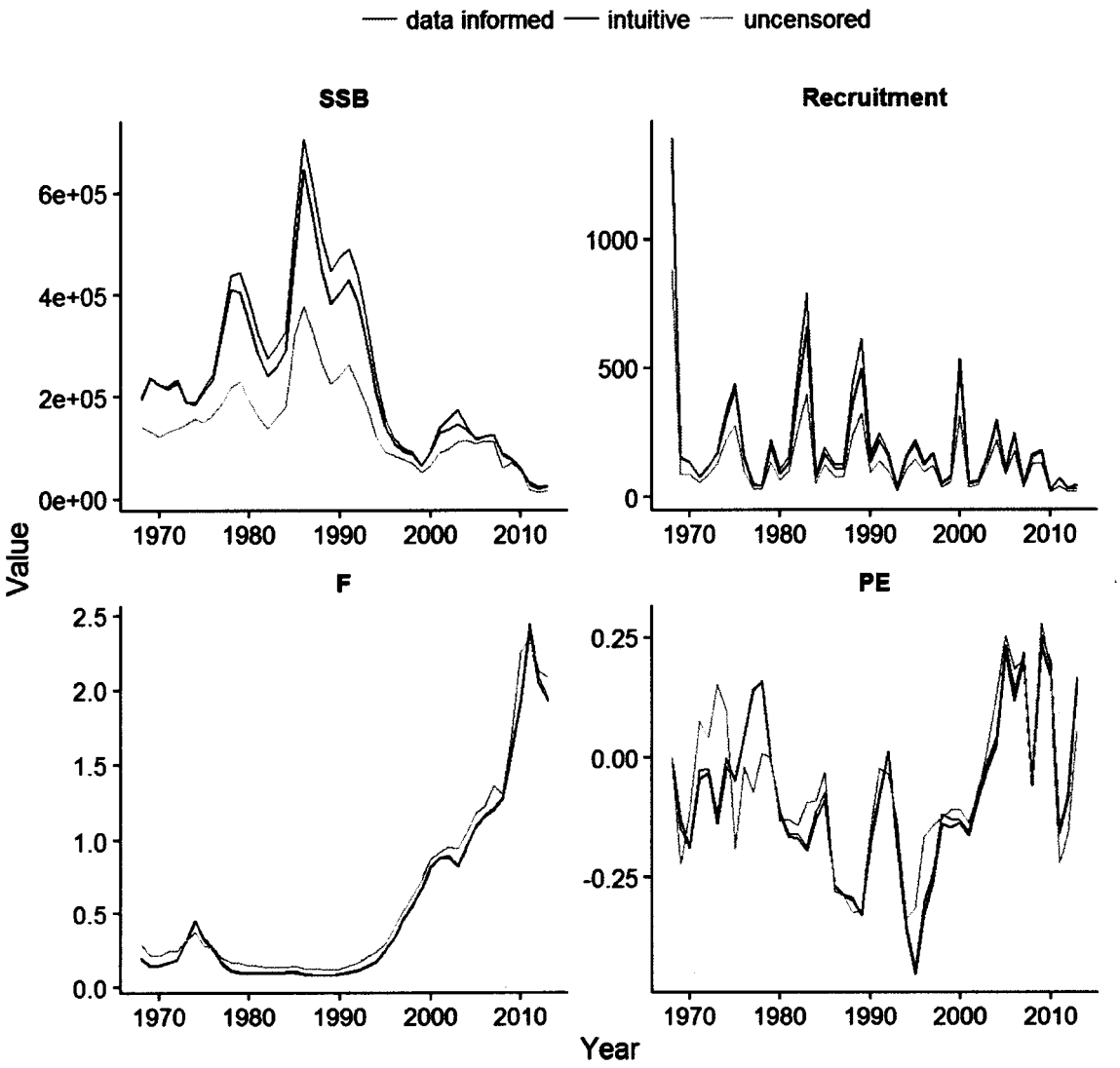


*Figure 2. Comparaison entre les paramètres estimés par le modèle non-censuré (gris) et les modèles censurés arbitraire (rouge) et informés (vert), pour la biomasse reproductrice (SSB), la mortalité par la **pêche (F), le recrutement (recruitment) et l'erreur de processus (process error), moyennés sur les âges 1-10.***

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2. DIAGNOSTICS

Les différentes exécutions du modèle ont toutes convergé, avec des gradients finaux <0.001. Les patrons rétrospectifs sont faibles avec des valeurs moyenne de rho de -0.024 et -0.089 pour la biomasse reproductrice des modèles non-censurés et censurés (informé), respectivement (Fig. 3). Les résidus ne présentent pas de patron particulier, ce qui suggère que **les modèles s'ajustent aux données d'observation de manière adéquate** (Fig. 4), avec seulement trois valeurs aberrantes parmi les résidus des prises-à-**l'âge (âge 1 pour les années** 1972, 1978 et 1980). Les simulations avec les pseudo-données pour le modèle de censuré informée, qui ont toutes convergé elles aussi, montrent une sous-estimation de la biomasse **reproductrice avant 1995 (lorsque les plus hauts niveaux d'abondance étaient atteints**, Fig. 5). Ce phénomène **pourrait être dû aux erreurs de processus et d'observation relativement élevées** (Tableau 8).

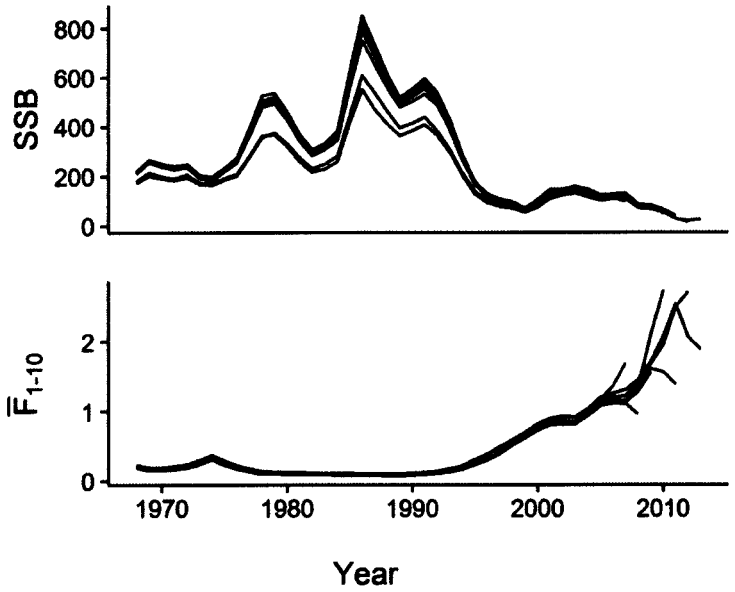


Figure 3. Analyses rétrospectives (sur 7 années) pour la biomasse reproductrice (SSB) et la mortalité par la pêche (F), dans le cas du modèle de censure informée.

L'analyse de sensibilité montre que la fonction à optimiser décroît rapidement sur la gamme de valeurs du multiplicateur des prises supplémentaires ($0.5<\Delta C_{rel}<1.5$), ce qui semble indiquer que la flexibilité supplémentaire donnée au modèle par une limite supérieure plus élevé lui permet de mieux s'ajuster aux données. Les prises estimées augmentent linéairement au fur et à mesure qu'on augmente l'incertitude autour des prises, mais plus rapidement pour le modèle arbitraire que pour le modèle informé (Fig. 6). L'erreur de processus fluctue de manière significative lorsqu'on augmente ΔC_{rel}, tout comme la mortalité par la pêche, surtout pour le modèle arbitraire. Dans l'ensemble, les paramètres du modèle censuré informé restent relativement stables, pour des valeurs non-extrèmes de ΔC_{rel} (entre 0.8 et 1.2).

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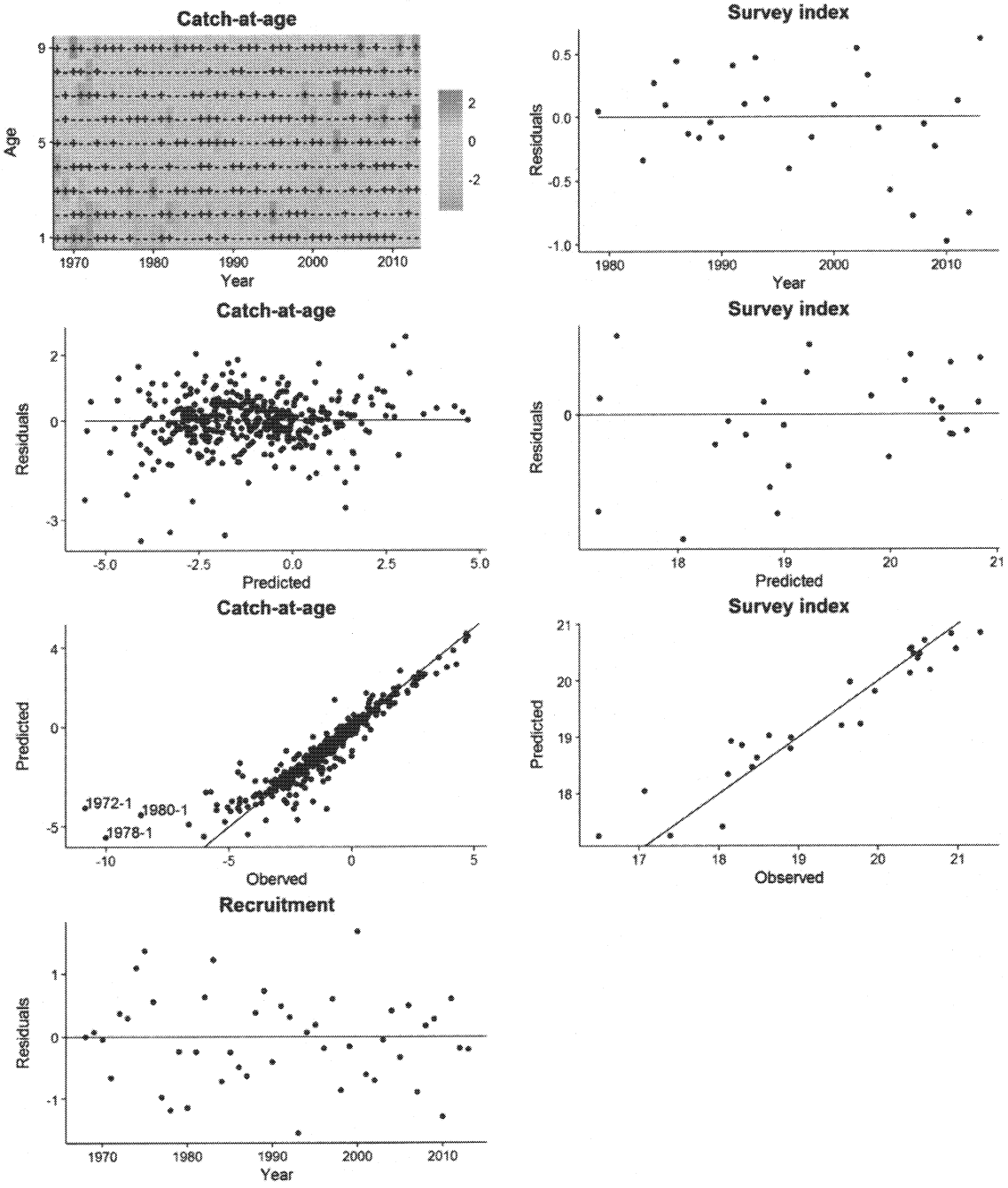


Figure 4. Résidus pour le modèle de censure informée, pour les prises-à-l'âge (catch-at-age), l'indice du relevé des œufs (survey index), et le recrutement (recruitment).

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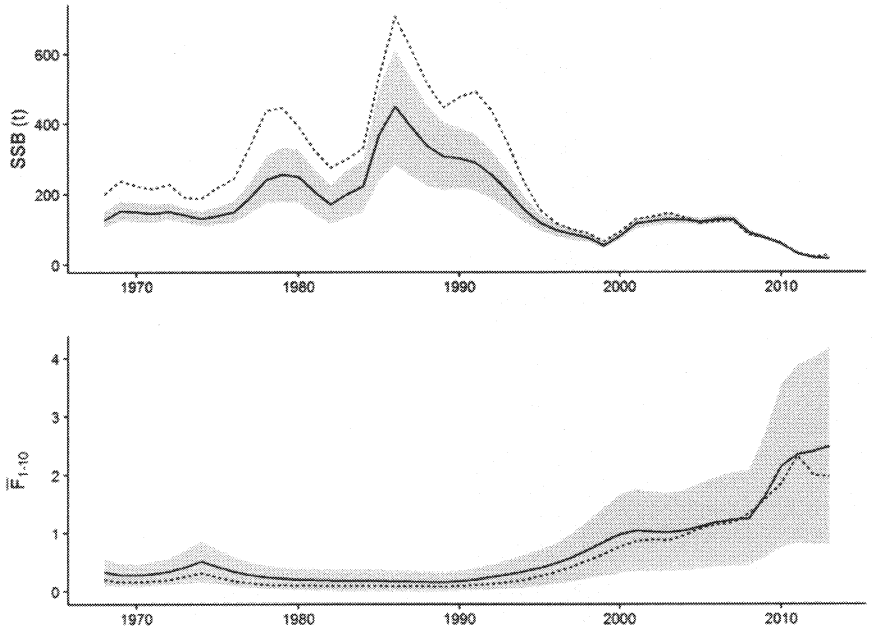


Figure 5. Simulations de vérification pour le modèle de censure informée. Les résultats sont donnés pour la biomasse reproductrice (SSB) et la mortalité par la pêche (F). La ligne en pointillés indique l'estimation du modèle. La ligne continue et l'intervalle grisé correspondent à la moyenne et à l'écart-type des 400 simulations.

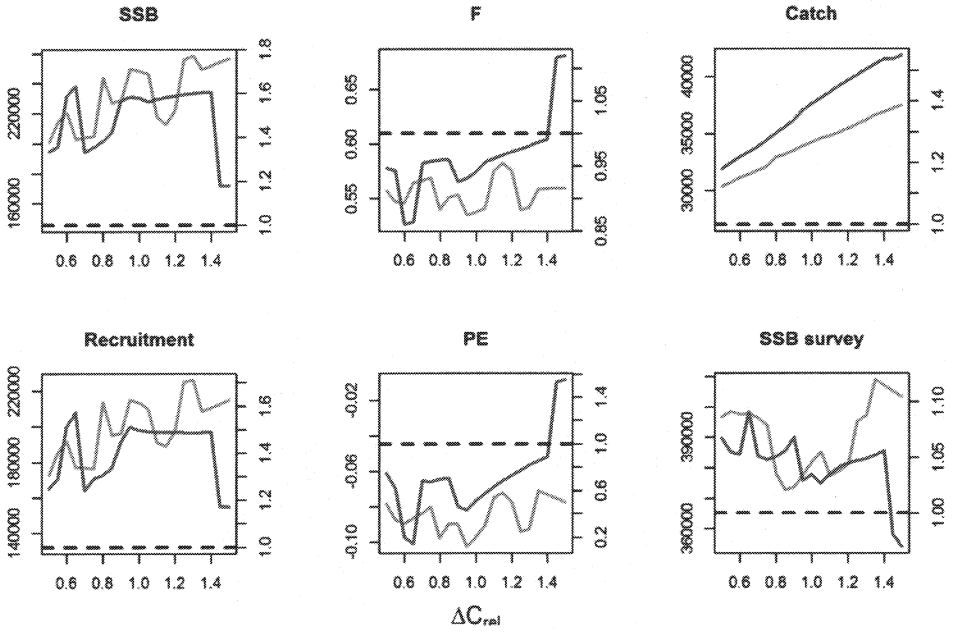


Figure 6. Analyses de sensibilité des paramètres estimés en fonction de l'incertitude autour des prises (ΔC_{rel}). Les lignes pointillées indiquent la valeur du modèle non-censuré et les lignes continues correspondent aux modèles censurés arbitraire (rouge) et informés (vert). L'axe de gauche indique les valeurs absolues (masses en tonnes et recrutement en milliers) et l'axe de droite est rapporté à une valeur relative au modèle non-censuré.

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3. COMPARAISON AVEC LE MODÈLE ICA

Il est difficile de comparer en profondeur l'ancien modèle d'évaluation analytique (ICA) et l'approche présentée ici (TMB) en raison de certaines différences de base entre les modèles (mortalité naturelle, plage des données utilisée pour le relevé des **œufs**), notamment parce qu'il est impossible d'exécuter à nouveau le modèle ICA pour effectuer une comparaison quantitative. Cependant, en utilisant les diagnostics disponibles, le modèle TMB se compare favorablement au modèle précédent. Les patrons généraux des tendances de la biomasse reproductive et de la mortalité par la pêche sont similaires et les conclusions générales quant à la trajectoire du stock sont les mêmes (Fig. 7). Cependant, le modèle ICA estimait une biomasse plus importante avant 1985 et durant la période 2000-2008. Le modèle TMB censuré estime une biomasse plus élevée pour la période 1985-2000 et pour les années après 2008.

Les modèles TMB censurés et non-censurés présentent tous deux un patron rétrospectif inférieur au modèle ICA (rho = 0.29 pour la biomasse reproductrice et rho = -0.16 pour F_{3-5}). Pour l'indice d'abondance tiré du relevé des **œufs**, les résidus du modèle censuré informé (RSS=3.7) sont légèrement inférieurs à ceux du modèle ICA (RSS=4.3). Les résidus des prises-à-l'âge sont difficiles à comparer directement car ils ne sont pas sur le même échelle (log vs. continuation ratio logit), dans l'ensemble, leurs patrons entre les années sont similaires et les différences sont moins accentuées au sein du modèle TMB.

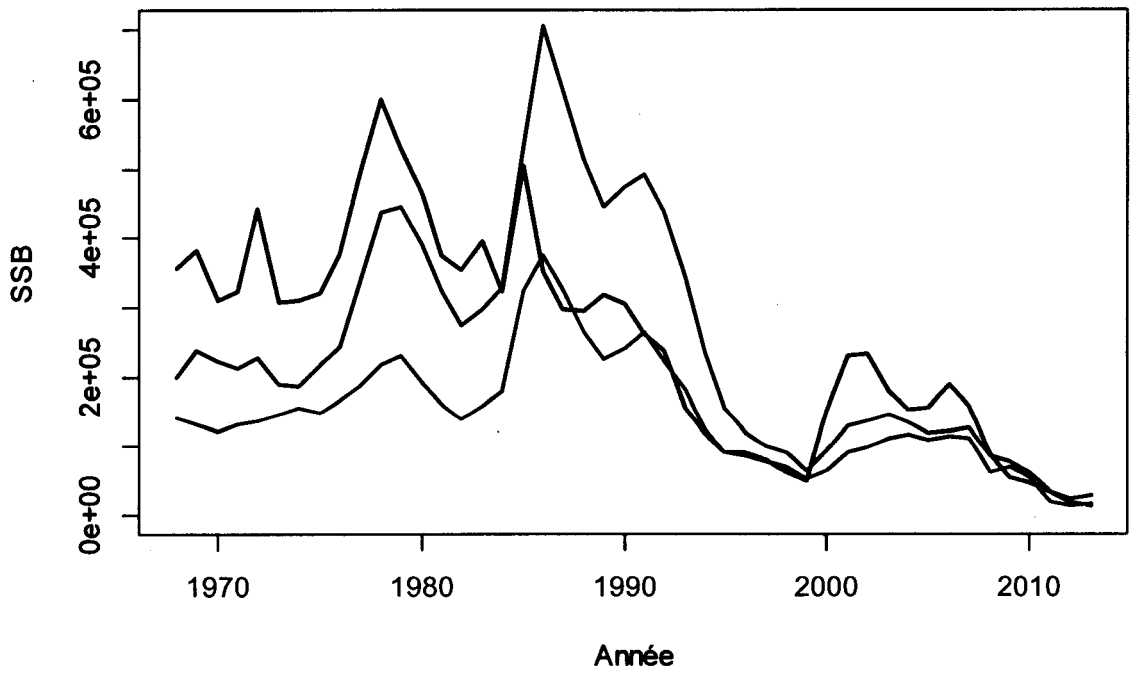


Figure 7. Biomasse reproductrice estimée par les modèles ICA (noir), TMB non-censuré (bleu) et TMB censurés (rouge).

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L'approche censurée, en plus d'être plus plausible au vu des informations disponibles sur les prises non-déclarées, permet aussi d'atténuer l'un des problèmes de l'évaluation précédente, à savoir que les prises déclarées représentaient une large proportion de la biomasse reproductrice estimée par le modèle ICA (jusqu'à 87% certaines années). Comme on sait que les prises déclarées sont sous-estimées, cela impliquerait que les prises totales des dernières années seraient égales voire même supérieures à la biomasse du stock, ce qui minait la crédibilité de l'évaluation. Le modèle TMB, et en particulier la version censurée, réduit ce problème de manière importante (Fig. 8). Le modèle ICA prédisait également que la mortalité par la pêche diminuait pour le groupe d'âge le plus âgé, ce qui était peu probable pour la pêche au maquereau bleu. Ce problème n'apparaît pas dans les versions du modèle TMB.

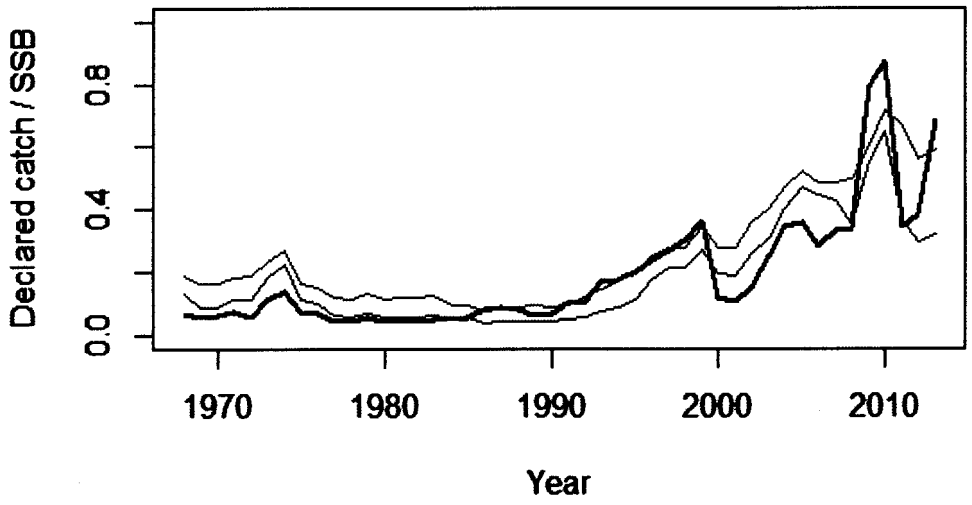


Figure 8. Rapport entre les prises déclarées et la biomasse reproductrice estimée par les modèles ICA (noir), TMB non-censuré (bleu) et TMB censurés (rouge).

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TABLEAUX

Tableau 1. Capture à l'âge ('000) du maquereau bleu des sous-régions 3 et 4 de l'OPANO, de 1968 à 2013 (les nombres en gras et soulignés représentent des classes d'âge abondantes).

ANNÉE	ÂGE									
	1	2	3	4	5	6	7	8	9	10+
1968	**43 062**	7 157	10 343	7 393	2 819	1 349	721	1 658	**10 425**	97
1969	5 692	**26 359**	18 057	2 027	929	855	1 099	440	462	**9 656**
1970	20 277	3 654	**33 584**	8 047	2 496	451	425	1 578	1 645	4 335
1971	7 156	7 389	1 702	**35 931**	7 620	1 753	2 203	1 526	1 879	5 517
1972	1	136	4 401	5 541	**24 826**	4 975	5 248	77	546	6 833
1973	9 176	20 624	9 649	9 333	13 972	**22 293**	8 317	2 771	837	1 603
1974	8 618	24 340	26 703	14 602	12 594	12 417	**15 377**	4 053	1 714	1 749
1975	**14 206**	24 905	13 049	11 636	7 052	7 526	5 456	**3 917**	825	581
1976	1 686	**21 171**	27 110	10 982	7 740	3 868	4 922	3 977	**3 123**	1 165
1977	740	7 136	**22 566**	11 319	3 683	2 570	809	1 443	897	**1 721**
1978	2	182	3 831	**14 733**	11 575	6 358	3 157	1 649	1 402	2 497
1979	204	480	1 189	6 615	**17 202**	12 321	5 590	2 282	1 702	2 457
1980	6	1 455	2 156	1 463	5 087	**9 833**	6 148	2 692	1 604	1 998
1981	6 145	2 836	5 143	1 183	1 656	4 669	**7 743**	3 309	1 595	1 892
1982	2 145	5 899	1 609	5 004	715	1 609	2 623	**4 828**	1 549	2 504
1983	**244**	1 622	2 459	915	4 012	478	946	3 119	**7 770**	3 601
1984	60	**19 774**	14 060	1 413	781	1 551	339	479	2 022	**5 640**
1985	357	511	**23 790**	12 844	1 252	656	2 197	289	551	7 605
1986	363	4 282	3 259	**40 844**	11 522	933	485	635	117	1 915
1987	1 291	3 118	3 358	2 288	**27 133**	5 692	232	183	83	716
1988	117	703	1 028	1 932	2 481	**24 769**	4 493	227	131	572
1989	**2 399**	8 862	1 276	937	1 541	575	**20 957**	2 693	369	781
1990	390	**6 222**	9 737	1 457	888	966	639	**16 765**	923	277
1991	646	6 106	**17 808**	9 560	1 212	762	1 052	849	**10 964**	557
1992	628	2 627	3 014	**14 148**	8 630	1 411	733	1 048	884	**11 142**
1993	117	4 900	8 493	4 497	**13 011**	7 686	1 660	651	699	6 882
1994	672	231	3 896	5 905	2 856	**13 672**	5 977	929	244	2 925
1995	10 603	14 206	698	4 674	4 093	1 768	**5 757**	2 281	203	590
1996	2 505	8 050	7 052	1 013	5 380	6 519	1 622	**7 094**	1 806	893
1997	**5 083**	11 823	10 923	4 604	638	3 709	3 081	545	**4 212**	785
1998	1 927	**18 525**	9 977	9 560	4 291	505	2 432	2 024	412	**1 472**
1999	1 348	4 463	**14 625**	7 509	4 698	2 049	478	681	663	354
2000	**28 460**	2 689	1 800	**5 465**	2 869	2 941	458	65	195	371
2001	8 215	**60 111**	11 234	2 482	**4 184**	842	870	144	33	371
2002	6 088	3 832	**70 334**	6 047	2 275	**2 136**	538	407	48	73
2003	3 763	4 381	5 832	**73 840**	8 480	1 123	**1 199**	32	5	0
2004	**27 524**	24 574	6 017	4 753	**56 010**	2 457	1 322	**606**	9	0
2005	17 391	**42 971**	24 381	4 007	3 807	**40 391**	1 680	746	**81**	45
2006	**31 651**	14 756	**41 630**	21 769	3 765	1 917	**17 117**	448	36	**0**
2007	2 968	**31 233**	22 784	**43 885**	11 105	2 471	1 328	**4 819**	39	7
2008	23 622	8 120	**25 964**	8 655	**12 703**	1 631	633	218	**1 033**	9
2009	**38 026**	24 443	6 613	**28 416**	6 363	**9 425**	358	127	5	**482**
2010	5 402	**31 923**	28 384	3 829	**13 988**	2 033	**3 286**	83	1	132
2011	**2 288**	1 230	**11 611**	6 091	639	**3 100**	336	**474**	25	40
2012	193	**10 775**	1 969	**3 142**	332	34	**113**	7	**1**	0
2013	346	3 651	**11 601**	735	**1 549**	97	0	**0**	0	**0**

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Tableau 2. Capture à l'âge (%) du maquereau bleu des sous-régions 3 et 4 de l'OPANO, de 1968 à 2013 (les nombres en gras et soulignés représentent des classes d'âge abondantes).

ANNÉE	ÂGE									
	1	2	3	4	5	6	7	8	9	10+
1968	**50.65**	8.42	12.16	8.69	3.32	1.59	0.85	1.95	**12.26**	0.11
1969	8.68	**40.20**	27.54	3.09	1.42	1.30	1.68	0.67	0.71	**14.72**
1970	26.51	4.78	**43.91**	10.52	3.26	0.59	0.56	2.06	2.15	5.67
1971	9.85	10.17	2.34	**49.44**	10.48	2.41	3.03	2.10	2.59	7.59
1972	0.00	0.26	8.37	10.54	**47.21**	9.46	9.98	0.15	1.04	12.99
1973	9.31	20.92	9.79	9.47	14.17	**22.61**	8.44	2.81	0.85	1.63
1974	7.05	19.92	21.86	11.95	10.31	10.16	**12.59**	3.32	1.40	1.43
1975	**15.93**	27.93	14.64	13.05	7.91	8.44	6.12	**4.39**	0.92	0.65
1976	1.97	**24.69**	31.62	12.81	9.03	4.51	5.74	4.64	**3.64**	1.36
1977	1.40	13.49	**42.67**	21.40	6.96	4.86	1.53	2.73	1.70	**3.26**
1978	0.00	0.40	8.44	**32.46**	25.50	14.01	6.96	3.63	3.09	5.50
1979	0.41	0.96	2.38	13.22	**34.38**	24.62	11.17	4.56	3.40	4.91
1980	0.02	4.48	6.65	4.51	15.68	**30.31**	18.95	8.30	4.94	6.16
1981	16.99	7.84	14.22	3.27	4.58	12.91	**21.41**	9.15	4.41	5.23
1982	7.53	20.71	5.65	17.57	2.51	5.65	9.21	**16.95**	5.44	8.79
1983	**0.97**	6.45	9.77	3.64	15.94	1.90	3.76	12.39	**30.87**	14.31
1984	0.13	**42.88**	30.49	3.06	1.69	3.36	0.74	1.04	4.38	**12.23**
1985	0.71	1.02	**47.53**	25.66	2.50	1.31	4.39	0.58	1.10	15.19
1986	0.56	6.65	5.06	**63.47**	17.90	1.45	0.75	0.99	0.18	2.98
1987	2.93	7.07	7.62	5.19	**61.54**	12.91	0.53	0.42	0.19	1.62
1988	0.32	1.93	2.82	5.30	6.81	**67.94**	12.32	0.62	0.36	1.57
1989	**5.94**	21.94	3.16	2.32	3.81	1.42	**51.89**	6.67	0.91	1.93
1990	1.02	**16.26**	25.45	3.81	2.32	2.52	1.67	**43.81**	2.41	0.72
1991	1.30	12.33	**35.96**	19.31	2.45	1.54	2.12	1.71	**22.14**	1.12
1992	1.42	5.93	6.81	**31.96**	19.50	3.19	1.66	2.37	2.00	**25.17**
1993	0.24	10.08	17.48	9.25	**26.77**	15.82	3.42	1.34	1.44	14.16
1994	1.80	0.62	10.44	15.83	7.66	**36.65**	16.02	2.49	0.65	7.84
1995	23.63	31.66	1.56	10.42	9.12	3.94	**12.83**	5.08	0.45	1.31
1996	5.97	19.20	16.82	2.42	12.83	15.55	3.87	**16.92**	4.31	2.13
1997	**11.20**	26.04	24.06	10.14	1.41	8.17	6.79	1.20	**9.28**	1.73
1998	3.77	**36.23**	19.51	18.70	8.39	0.99	4.76	3.96	0.81	**2.88**
1999	3.66	12.11	**39.67**	20.37	12.74	5.56	1.30	1.85	1.80	0.96
2000	**62.81**	5.93	3.97	**12.06**	6.33	6.49	1.01	0.14	0.43	0.82
2001	9.28	**67.93**	12.70	2.80	**4.73**	0.95	0.98	0.16	0.04	0.42
2002	6.63	4.18	**76.63**	6.59	2.48	**2.33**	0.59	0.44	0.05	0.08
2003	3.81	4.44	5.91	**74.85**	8.60	1.14	**1.21**	0.03	0.01	0.00
2004	**22.33**	19.93	4.88	3.86	**45.44**	1.99	1.07	**0.49**	0.01	0.00
2005	12.83	**31.71**	17.99	2.96	2.81	**29.81**	1.24	0.55	**0.06**	0.03
2006	**23.78**	11.09	**31.28**	16.36	2.83	1.44	**12.86**	0.34	0.03	**0.00**
2007	2.46	**25.89**	18.89	**36.38**	9.21	2.05	1.10	**3.99**	0.03	0.01
2008	28.60	9.83	**31.44**	10.48	**15.38**	1.97	0.77	0.26	**1.25**	0.01
2009	**33.28**	21.39	5.79	**24.87**	5.57	**8.25**	0.31	0.11	0.00	**0.42**
2010	6.07	**35.84**	31.87	4.30	**15.71**	2.28	**3.69**	0.09	0.00	0.15
2011	**8.86**	4.76	**44.94**	23.58	2.47	**12.00**	1.30	**1.83**	0.10	0.15
2012	1.15	**64.00**	11.69	**20.27**	1.97	0.20	**0.67**	0.04	**0.01**	0.00
2013	1.92	20.31	**64.53**	4.09	**8.62**	0.54	0.00	**0.00**	0.00	**0.00**

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Tableau 3. Poids (kg) à l'âge du maquereau bleu des sous-régions 3 et 4 de l'OPANO, de 1968 à 2013 (les nombres en gras et soulignés représentent des classes d'âge abondantes).

ANNÉE	ÂGE									
	1	2	3	4	5	6	7	8	9	10+
1968	**0.148**	0.241	0.335	0.425	0.506	0.576	0.634	0.683	**0.722**	0.753
1969	0.131	**0.214**	0.300	0.382	0.456	0.520	0.574	0.618	0.654	**0.683**
1970	0.107	0.179	**0.253**	0.324	0.389	0.444	0.491	0.530	0.562	0.587
1971	0.110	0.181	0.256	**0.327**	0.391	0.446	0.494	0.532	0.564	0.589
1972	0.123	0.210	0.300	0.386	**0.464**	0.533	0.590	0.638	0.677	0.733
1973	0.113	0.189	0.269	0.345	0.414	**0.473**	0.524	0.565	0.600	0.628
1974	0.111	0.190	0.273	0.352	0.425	0.487	**0.541**	0.585	0.621	0.649
1975	**0.104**	0.176	0.252	0.326	0.393	0.451	0.500	**0.540**	0.573	0.600
1976	0.097	**0.168**	0.244	0.316	0.382	0.440	0.489	0.530	**0.563**	0.590
1977	0.114	0.198	**0.288**	0.375	0.454	0.524	0.582	0.631	0.671	**0.703**
1978	0.192	0.285	0.425	**0.463**	0.509	0.582	0.625	0.659	0.673	0.697
1979	0.190	0.272	0.531	0.567	**0.579**	0.603	0.652	0.714	0.752	0.769
1980	0.146	0.376	0.548	0.609	0.617	**0.635**	0.672	0.705	0.781	0.743
1981	0.114	0.315	0.523	0.577	0.643	0.660	**0.674**	0.707	0.723	0.756
1982	0.152	0.340	0.541	0.606	0.666	0.743	0.737	**0.722**	0.719	0.740
1983	**0.098**	0.257	0.479	0.593	0.628	0.659	0.712	0.709	**0.705**	0.727
1984	0.098	**0.162**	0.338	0.525	0.625	0.657	0.696	0.715	0.705	**0.709**
1985	0.203	0.393	**0.399**	0.505	0.601	0.742	0.767	0.779	0.840	0.866
1986	0.163	0.306	0.435	**0.436**	0.520	0.671	0.784	0.800	0.856	0.844
1987	0.214	0.309	0.405	0.483	**0.506**	0.599	0.701	0.785	0.888	0.892
1988	0.203	0.398	0.467	0.502	0.549	**0.579**	0.670	0.732	0.795	0.876
1989	**0.169**	0.329	0.450	0.545	0.619	0.618	**0.660**	0.753	0.810	0.884
1990	0.280	**0.331**	0.416	0.534	0.620	0.628	0.676	**0.678**	0.724	0.863
1991	0.251	0.336	**0.435**	0.478	0.564	0.627	0.644	0.724	**0.712**	0.816
1992	0.184	0.297	0.408	**0.449**	0.508	0.552	0.616	0.672	0.678	**0.694**
1993	0.180	0.280	0.361	0.446	**0.489**	0.547	0.607	0.664	0.699	0.724
1994	0.232	0.371	0.384	0.461	0.554	**0.549**	0.594	0.643	0.714	0.714
1995	0.197	0.300	0.435	0.488	0.532	0.607	**0.616**	0.661	0.738	0.799
1996	0.224	0.333	0.433	0.535	0.543	0.595	0.647	**0.684**	0.729	0.845
1997	**0.240**	0.375	0.448	0.524	0.594	0.601	0.635	0.757	**0.700**	0.751
1998	0.157	**0.273**	0.412	0.517	0.577	0.603	0.665	0.666	0.721	**0.716**
1999	0.186	0.298	**0.439**	0.509	0.569	0.649	0.703	0.719	0.730	0.769
2000	**0.208**	0.328	0.409	**0.488**	0.564	0.610	0.658	0.674	0.697	0.704
2001	0.139	**0.280**	0.401	0.475	**0.562**	0.625	0.668	0.693	0.758	0.775
2002	0.161	0.294	**0.389**	0.464	0.498	**0.607**	0.637	0.666	0.671	0.696
2003	0.207	0.314	0.387	**0.490**	0.554	0.667	**0.726**	0.828	0.839	0.680
2004	**0.212**	0.281	0.394	0.480	**0.554**	0.593	0.661	**0.754**	0.682	0.680
2005	0.110	**0.306**	0.385	0.466	0.520	**0.618**	0.654	0.698	**0.708**	0.665
2006	**0.204**	0.316	**0.429**	0.482	0.544	0.569	**0.655**	0.679	0.667	**0.679**
2007	0.206	**0.308**	0.427	**0.503**	0.582	0.629	0.665	**0.711**	0.767	0.692
2008	0.175	0.293	**0.416**	0.497	**0.536**	0.612	0.644	0.587	**0.724**	0.733
2009	**0.208**	0.316	0.416	**0.495**	0.580	**0.605**	0.675	0.612	0.707	**0.775**
2010	0.148	**0.348**	0.431	0.527	**0.575**	0.661	**0.652**	0.602	0.716	0.667
2011	**0.188**	0.293	**0.428**	0.491	0.565	**0.574**	0.704	**0.649**	0.650	0.710
2012	0.169	**0.339**	0.414	**0.503**	0.563	0.680	**0.713**	0.696	**0.645**	0.689
2013	0.175	0.305	**0.444**	0.469	**0.589**	0.592	0.709	**0.657**	0.648	**0.689**

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Tableau 4. Biomasse (t) de la capture à l'âge du maquereau bleu des sous-régions 3 et 4 de l'OPANO, de 1968 à 2013 (les nombres en gras et soulignés représentent des classes d'âge abondantes).

ANNÉE	ÂGE										TOTAL
	1	2	3	4	5	6	7	8	9	10+	
1968	**6 373**	1 725	3 465	3 142	1 426	777	457	1 132	**7 527**	73	26 097
1969	746	**5 641**	5 417	774	424	444	631	272	302	**6 595**	21 247
1970	2 170	654	**8 497**	2 607	971	200	209	836	924	2 545	19 613
1971	787	1 337	436	**11 749**	2 979	782	1 088	812	1 060	3 249	24 280
1972	0	29	1 320	2 139	**11 519**	2 651	3 097	49	370	5 009	26 183
1973	1 037	3 898	2 596	3 220	5 785	**10 545**	4 358	1 566	502	1 007	34 513
1974	957	4 625	7 290	5 140	5 352	6 047	**8 319**	2 371	1 064	1 135	42 300
1975	**1 477**	4 383	3 288	3 793	2 771	3 394	2 728	**2 115**	473	349	24 773
1976	164	**3 557**	6 615	3 470	2 957	1 702	2 407	2 108	**1 758**	688	25 425
1977	84	1 413	**6 499**	4 244	1 672	1 346	471	910	602	**1 210**	18 453
1978	0	52	1 628	**6 821**	5 892	3 700	1 973	1 087	944	1 740	23 838
1979	39	131	631	3 751	**9 960**	7 430	3 645	1 629	1 280	1 889	30 384
1980	1	547	1 181	891	3 139	**6 244**	4 131	1 898	1 253	1 485	20 770
1981	701	893	2 690	683	1 065	3 082	**5 219**	2 339	1 153	1 430	19 254
1982	326	2 006	870	3 032	476	1 195	1 933	**3 486**	1 114	1 853	16 292
1983	**24**	417	1 178	543	2 520	315	674	2 211	**5 478**	2 618	15 976
1984	6	**3 203**	4 752	742	488	1 019	236	342	1 426	**3 999**	16 213
1985	72	201	**9 492**	6 486	752	487	1 685	225	463	6 583	26 447
1986	59	1 310	1 418	**17 808**	5 992	626	381	508	100	1 617	29 818
1987	276	963	1 360	1 105	**13 729**	3 409	162	144	74	639	21 862
1988	24	280	480	970	1 362	**14 341**	3 010	166	104	501	21 239
1989	**405**	2 916	574	511	954	356	**13 832**	2 028	299	690	22 563
1990	109	**2 059**	4 051	778	551	607	432	**11 367**	668	239	20 861
1991	162	2 052	**7 746**	4 570	684	478	677	615	**7 806**	454	25 244
1992	116	780	1 230	**6 352**	4 384	779	452	704	599	**7 734**	23 130
1993	21	1 372	3 066	2 006	**6 362**	4 204	1 008	432	489	4 986	23 946
1994	156	86	1 496	2 722	1 582	**7 506**	3 550	597	174	2 090	19 960
1995	2 089	4 262	304	2 281	2 177	1 073	**3 546**	1 508	150	471	17 861
1996	561	2 681	3 054	542	2 921	3 879	1 049	**4 852**	1 317	755	21 610
1997	**1 220**	4 434	4 894	2 412	379	2 229	1 956	413	**2 948**	590	21 475
1998	303	**5 057**	4 111	4 943	2 476	305	1 617	1 348	297	**1 054**	21 509
1999	251	1 330	**6 420**	3 822	2 673	1 330	336	490	484	272	17 408
2000	**5 920**	882	736	**2 667**	1 618	1 794	301	44	136	261	14 359
2001	1 142	**16 831**	4 505	1 179	**2 352**	526	581	100	25	287	27 528
2002	980	1 127	**27 360**	2 806	1 133	**1 296**	343	271	32	51	35 399
2003	779	1 376	2 257	**36 182**	4 698	749	**870**	27	4	0	46 941
2004	**5 835**	6 905	2 371	2 282	**31 029**	1 457	874	**457**	6	0	51 216
2005	1 913	**13 149**	9 387	1 867	1 980	**24 961**	1 099	521	**57**	30	54 964
2006	**6 457**	4 663	**17 859**	10 493	2 048	1 091	**11 212**	304	24	**0**	54 150
2007	611	**9 620**	9 729	**22 074**	6 463	1 554	883	**3 426**	30	5	54 396
2008	4 134	2 379	**10 801**	4 302	**6 809**	998	408	128	**748**	7	30 713
2009	**7 909**	7 724	2 751	**14 066**	3 691	**5 702**	242	78	4	**374**	42 539
2010	799	**11 109**	12 234	2 018	**8 043**	1 344	**2 142**	50	0	88	37 827
2011	**430**	360	**4 969**	2 991	361	**1 779**	237	**307**	16	28	11 480
2012	33	**3 653**	815	**1 716**	187	23	**81**	5	**1**	0	6 513
2013	60	1 114	**5 151**	345	**912**	57	0	**0**	0	**0**	7 639

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Tableau 5. Poids (kg) à l'âge au 1er janvier du maquereau bleu des sous-régions 3 et 4 de l'OPANO, de 1968 à 2013 (les nombres en gras et soulignés représentent des classes d'âge abondantes).

ANNÉE	ÂGE									
	1	2	3	4	5	6	7	8	9	10+
1968	**0.123**	0.216	0.314	0.410	0.499	0.577	0.642	0.698	**0.702**	0.753
1969	0.112	**0.178**	0.269	0.358	0.440	0.513	0.575	0.626	0.668	**0.683**
1970	0.082	0.153	**0.233**	0.312	0.386	0.450	0.505	0.552	0.589	0.587
1971	0.080	0.139	0.214	**0.288**	0.356	0.417	0.468	0.511	0.547	0.589
1972	0.099	0.152	0.233	0.314	**0.390**	0.457	0.513	0.561	0.600	0.733
1973	0.087	0.153	0.238	0.322	0.400	**0.469**	0.529	0.577	0.619	0.628
1974	0.088	0.147	0.227	0.308	0.383	0.449	**0.506**	0.554	0.592	0.649
1975	**0.082**	0.140	0.219	0.298	0.372	0.438	0.494	**0.541**	0.579	0.600
1976	0.068	**0.132**	0.207	0.282	0.353	0.416	0.470	0.515	**0.551**	0.590
1977	0.072	0.139	**0.220**	0.303	0.379	0.447	0.506	0.556	0.596	**0.703**
1978	0.161	0.180	0.290	**0.365**	0.437	0.514	0.572	0.619	0.652	0.697
1979	0.135	0.229	0.389	0.491	**0.518**	0.554	0.616	0.668	0.704	0.769
1980	0.099	0.267	0.386	0.569	0.592	**0.606**	0.637	0.678	0.747	0.743
1981	0.066	0.215	0.444	0.562	0.626	0.638	**0.654**	0.689	0.714	0.756
1982	0.117	0.197	0.413	0.563	0.620	0.691	0.697	**0.698**	0.713	0.740
1983	**0.076**	0.198	0.404	0.566	0.617	0.663	0.727	0.723	**0.713**	0.727
1984	0.049	**0.126**	0.295	0.502	0.609	0.642	0.677	0.714	0.707	**0.709**
1985	0.165	0.196	**0.254**	0.413	0.562	0.681	0.710	0.736	0.775	0.866
1986	0.118	0.249	0.414	**0.417**	0.512	0.635	0.763	0.783	0.817	0.844
1987	0.157	0.224	0.352	0.458	**0.470**	0.558	0.686	0.785	0.843	0.892
1988	0.160	0.292	0.380	0.451	0.515	**0.541**	0.634	0.716	0.790	0.876
1989	**0.121**	0.258	0.423	0.505	0.557	0.583	**0.618**	0.710	0.770	0.884
1990	0.256	**0.237**	0.370	0.490	0.581	0.624	0.646	**0.669**	0.738	0.863
1991	0.231	0.307	**0.380**	0.446	0.549	0.624	0.636	0.700	**0.695**	0.816
1992	0.149	0.273	0.370	**0.442**	0.493	0.558	0.622	0.658	0.701	**0.694**
1993	0.125	0.227	0.327	0.427	**0.469**	0.527	0.579	0.640	0.685	0.724
1994	0.204	0.258	0.328	0.408	0.497	**0.518**	0.570	0.625	0.689	0.714
1995	0.152	0.264	0.402	0.433	0.495	0.580	**0.582**	0.627	0.689	0.799
1996	0.173	0.256	0.360	0.482	0.515	0.563	0.627	**0.649**	0.694	0.845
1997	**0.225**	0.290	0.386	0.476	0.564	0.571	0.615	0.700	**0.692**	0.751
1998	0.114	**0.256**	0.393	0.481	0.550	0.599	0.632	0.650	0.739	**0.716**
1999	0.140	0.216	**0.346**	0.458	0.542	0.612	0.651	0.692	0.697	0.769
2000	**0.179**	0.247	0.349	**0.463**	0.536	0.589	0.654	0.688	0.708	0.704
2001	0.096	**0.241**	0.363	0.441	**0.524**	0.594	0.638	0.675	0.715	0.775
2002	0.115	0.202	**0.330**	0.431	0.486	**0.584**	0.631	0.667	0.682	0.696
2003	0.178	0.225	0.337	**0.437**	0.507	0.576	**0.664**	0.726	0.748	0.680
2004	**0.177**	0.241	0.352	0.431	**0.521**	0.573	0.664	**0.740**	0.752	0.680
2005	0.065	**0.255**	0.329	0.429	0.500	**0.585**	0.623	0.679	**0.731**	0.665
2006	**0.166**	0.186	**0.362**	0.431	0.504	0.544	**0.636**	0.666	0.682	**0.679**
2007	0.173	**0.251**	0.367	**0.465**	0.530	0.585	0.615	**0.682**	0.722	0.692
2008	0.130	0.246	**0.358**	0.461	**0.519**	0.597	0.637	0.625	**0.718**	0.733
2009	**0.161**	0.235	0.349	**0.454**	0.537	**0.570**	0.643	0.628	0.644	**0.775**
2010	0.105	**0.269**	0.369	0.468	**0.534**	0.619	**0.628**	0.638	0.662	0.667
2011	**0.140**	0.208	**0.386**	0.460	0.546	**0.575**	0.682	**0.651**	0.626	0.710
2012	0.126	**0.253**	0.348	**0.464**	0.526	0.620	**0.640**	0.700	**0.647**	0.689
2013	0.135	0.227	**0.388**	0.441	**0.544**	0.577	0.694	**0.684**	0.672	**0.689**

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Tableau 6. Proportion des poissons matures à l'âge (récoltés lors de la ponte en juin et juillet) du maquereau bleu des sous-régions 3 et 4 de l'OPANO, de 1968 à 2013 (les nombres en gras et soulignés représentent des classes d'âge abondantes).

ANNÉE	ÂGE									
	1	2	3	4	5	6	7	8	9	10+
1968	**0.288**	0.495	0.705	0.853	0.934	0.972	0.988	0.995	**0.998**	0.999
1969	0.288	**0.495**	0.705	0.853	0.934	0.972	0.988	0.995	0.998	**0.999**
1970	0.288	0.495	**0.705**	0.853	0.934	0.972	0.988	0.995	0.998	0.999
1971	0.288	0.495	0.705	**0.853**	0.934	0.972	0.988	0.995	0.998	0.999
1972	0.288	0.495	0.705	0.853	**0.934**	0.972	0.988	0.995	0.998	0.999
1973	0.288	0.495	0.705	0.853	0.934	**0.972**	0.988	0.995	0.998	0.999
1974	0.288	0.495	0.705	0.853	0.934	0.972	**0.988**	0.995	0.998	0.999
1975	**0.163**	0.857	0.995	1.000	1.000	1.000	1.000	**1.000**	1.000	1.000
1976	0.204	**0.785**	0.981	0.999	1.000	1.000	1.000	1.000	**1.000**	1.000
1977	0.049	0.841	**0.998**	1.000	1.000	1.000	1.000	1.000	1.000	**1.000**
1978	0.429	0.907	0.992	**0.999**	1.000	1.000	1.000	1.000	1.000	1.000
1979	0.368	0.593	0.785	0.902	**0.958**	0.983	0.993	0.997	0.999	1.000
1980	0.231	0.972	1.000	1.000	1.000	**1.000**	1.000	1.000	1.000	1.000
1981	0.123	0.984	1.000	1.000	1.000	1.000	**1.000**	1.000	1.000	1.000
1982	0.015	0.995	1.000	1.000	1.000	1.000	1.000	**1.000**	1.000	1.000
1983	**0.378**	0.654	0.854	0.948	0.983	0.994	0.998	0.999	**1.000**	1.000
1984	0.010	**0.503**	0.990	1.000	1.000	1.000	1.000	1.000	1.000	**1.000**
1985	0.402	0.879	**0.988**	0.999	1.000	1.000	1.000	1.000	1.000	1.000
1986	0.422	0.847	0.974	**0.996**	0.999	1.000	1.000	1.000	1.000	1.000
1987	0.442	0.815	0.961	0.993	**0.999**	1.000	1.000	1.000	1.000	1.000
1988	0.395	0.904	0.980	0.996	0.999	**1.000**	1.000	1.000	1.000	1.000
1989	**0.349**	0.992	1.000	1.000	1.000	1.000	**1.000**	1.000	1.000	1.000
1990	0.283	**0.937**	0.998	1.000	1.000	1.000	1.000	**1.000**	1.000	1.000
1991	0.216	0.881	**0.995**	1.000	1.000	1.000	1.000	1.000	**1.000**	1.000
1992	0.229	0.807	0.977	**0.997**	1.000	1.000	1.000	1.000	1.000	**1.000**
1993	0.229	0.807	0.977	0.997	**1.000**	1.000	1.000	1.000	1.000	1.000
1994	0.229	0.807	0.977	0.997	1.000	**1.000**	1.000	1.000	1.000	1.000
1995	0.242	0.733	0.959	0.995	0.999	1.000	**1.000**	1.000	1.000	1.000
1996	0.195	0.736	0.970	0.997	1.000	1.000	1.000	**1.000**	1.000	1.000
1997	**0.132**	0.830	0.985	0.999	1.000	1.000	1.000	1.000	**1.000**	1.000
1998	0.068	**0.925**	1.000	1.000	1.000	1.000	1.000	1.000	1.000	**1.000**
1999	0.117	0.766	**0.988**	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2000	**0.459**	0.908	0.991	**0.999**	1.000	1.000	1.000	1.000	1.000	1.000
2001	0.430	**0.929**	0.996	1.000	**1.000**	1.000	1.000	1.000	1.000	1.000
2002	0.306	0.949	**0.999**	1.000	1.000	**1.000**	1.000	1.000	1.000	1.000
2003	0.241	0.953	0.999	**1.000**	1.000	1.000	**1.000**	1.000	1.000	1.000
2004	**0.138**	0.855	0.995	1.000	**1.000**	1.000	1.000	**1.000**	1.000	1.000
2005	0.088	**0.624**	0.966	0.998	1.000	**1.000**	1.000	1.000	**1.000**	1.000
2006	**0.253**	0.847	**0.989**	0.999	1.000	1.000	**1.000**	1.000	1.000	**1.000**
2007	0.081	**0.922**	0.999	**1.000**	1.000	1.000	1.000	**1.000**	1.000	1.000
2008	0.210	0.793	**0.982**	0.999	**1.000**	1.000	1.000	1.000	**1.000**	1.000
2009	**0.029**	0.854	0.999	**1.000**	1.000	**1.000**	1.000	1.000	1.000	**1.000**
2010	0.025	**0.615**	0.990	1.000	**1.000**	1.000	**1.000**	1.000	1.000	1.000
2011	**0.255**	0.860	**0.991**	0.999	1.000	**1.000**	1.000	**1.000**	1.000	1.000
2012	0.210	**0.873**	0.994	**1.000**	1.000	1.000	**1.000**	1.000	**1.000**	1.000
2013	0.165	0.886	**0.997**	1.000	**1.000**	1.000	1.000	**1.000**	1.000	**1.000**

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Tableau 7. Indice de la biomasse reproductrice (t) du maquereau bleu calculé à partir des relevés des œufs PMZA (Programme de Monitorage de la Zone Atlantique)-maquereau bleu réalisés dans le sud du golfe du Saint-Laurent depuis 1979. Aucun relevé n'a été conduit en 1980, 1981, 1982,1995 et 1997, et des relevés partiels ont été réalisés en 1999 et 2001; le relevé de 2006 a débuté à la toute fin de la saison de ponte de sorte que les résultats correspondants ne sont pas considérés dans la présente évaluation.

ANNÉE	INDICE DE BIOMASSE (t)
1979	820 554
1983	342 591
1984	726 183
1985	1 217 178
1987	1 754 052
1988	872 703
1989	739 208
1990	757 877
1991	725 415
1992	1 284 928
1993	796 459
1994	935 545
1996	467 261
1998	105 801
2000	161 573
2002	389 007
2003	307 091
2004	162 802
2005	87 959
2007	76 532
2008	99 631
2009	73 743
2010	25 960
2011	35 714
2012	14 568
2013	68 547

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Tableau 8. Liste des paramètres du modèle TMB. Pour les paramètres fixes dans le temps ou à l'âge, les valeurs estimées (Est.) et leurs écarts-types (sd) sont données pour les trois formulations du modèle.

		Censure informée		Censure arbitraire		Non-censuré	
Para.	Definition	Est.	sd	Est.	sd	Est.	sd
$N_{a,y}$	Abondance à l'âge						
F_a	Mortalité par la pêche à l'âge						
F_y	Mortalité par la pêche à l'année						
σ_s^2	Erreur de mesure du relevé	0.57	0.09	0.68	0.1	0.58	0.11
$\sigma_{F_y}^2$	Variance de la mortalité par la pêche anuelle	0.36	0.05	0.31	0.05	0.21	0.04
σ_R^2	Variance du recrutement	0.84	0.16	0.83	0.11	0.78	0.12
σ_{crl}^2	Erreur de mesure sur les prises-à-l'âge						
q	Coefficient de capturabilité du relevé	0.57	0.13	0.73	0.13	1.16	0.21
α	Coefficient Beverton-Holt	2.1	2.02	1.07	0.73	2.53	3.24
β	Coefficient Beverton-Holt	$1.67.10^{-8}$	0	$7.05.10^{-9}$	0	$3.56.10^{-8}$	0
γ	Coefficient environmemental	0.27	0.12	0.21	0.11	0.23	0.11
σ_δ^2	Erreur de processus	0.31	0.05	0.3	0.04	0.33	0.04
φ_a	Corrélation des âges dans l'erreur de processus	0.66	0.3	0.54	0.3	0.2	0.4
φ_y	Corrélation des années dans l'erreur de processus	0.08	0.43	0.07	0.29	-0.26	0.43

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ANNEXE : ESTIMATION DES BESOINS EN APPÂT

Nous avons estimé approximativement les besoins maximaux en appât pour chacune des cinq provinces, afin d'informer la limite supérieure des prises non-déclarées dans le modèle censuré.

1. Terre-Neuve et Labrador

C'est la seule province pour laquelle il n'y a pas de raison de penser que les prises déclarées sont fortement sous-estimées (à l'exception des pêches récréatives). Les débarquements de homards y sont très faibles et l'appât pour la pêche au crabe (la plus grande au Canada depuis une vingtaine d'années) utilise presque exclusivement du calmar (>90%, Addison et al. 2013). Le peu de maquereaux qui sont utilisés proviennent du seul acheteur de la province et sont donc déclarés. Par conséquence, la limite supérieure des prises n'a pas été augmentée pour Terre-Neuve et Labrador.

2. Sud du golfe du Saint-Laurent

Cette région inclut l'île du Prince Édouard, le Nouveau-Brunswick et une partie de la Nouvelle-Écosse. Durant trois années (1993, 2005 et 2011), un sondage des habitudes de pêche a été effectué auprès des pêcheurs de homard de la région (Michel Comeau, comm. pers.). Les résultats (non-publiés) montrent que la quantité totale d'appâts utilisée est resté raisonnablement constante pour ces années. En se basant sur la quantité annuelle maximale d'appâts utilisés par les pêcheurs (5.38 t), la proportion de maquereau frais (maximum 11%) parmi les autres types d'appât (parmi lesquels on trouve du maquereau congelé importé) et le nombre de pêcheurs (environ 2 953), nous avons estimé qu'un maximum de 1 800 t de maquereaux ont pu être pris mais non déclarés pour l'utilisation par la pêche au homard depuis 1990. Pour la période avant 1990, nous avons présumé que la valeur annuelle était inférieure de moitié car les débarquements de homards étaient 40% plus bas et on pense que le maquereau était moins important comme appât. Le maquereau utilisé pour la pêche au crabe a été estimé à 187.5 t pour toute la période, d'après les estimations des besoins en appâts et les proportions fournies par le Marine Stewardship Council (MSC 2012).

3. Québec

De 2007 à 2010, des pêcheurs de maquereau des îles de la Madeleine (commercial ou appât) ont été sondés dans le but de connaître les prises totales (Julie Aucoin, comm. pers.). Pour chaque année, le rapport entre les prises non-déclarées et déclarées (de 1.16 à 2.74) a été multiplié par les prises déclarées pour l'ensemble du Québec (dont les prises des îles de la Madeleine représentent de 19 à 63%). La plus haute valeur de la série (2 130 t) a été choisie pour représenter toute la période.

4. Nouvelle-Écosse

Les débarquements de maquereau de la Nouvelle-Écosse ont été ajustés en se basant sur le rapport du MSC pour la pêche au crabe dans la région (MSC 2014). Pour 2010, les besoins en appât ont été estimés à 2 000 t (surtout du hareng, du maquereau et du calmar). En partant de ce nombre, nous avons augmenté la limite supérieure de 1 000 t pour toute la période. Pour la pêche au homard, une moyenne de 5 216 t a été utilisée par pêcheur (2002-2004, Harnish 2009), pour un besoin total de 87 730 t. Il n'y a pas d'information disponible sur la composition ou l'origine des appâts. Nous avons donc présumé que la proportion de maquereau local était de 75% (65 780 t). Avant 1990, ce nombre a été divisé par deux pour les mêmes raisons que dans le sud du golfe. La pêche au homard en haute mer n'utilise que du hareng et n'a donc pas d'influence sur la limite supérieure (Blyth-Skyrme et al. 2015).

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Cormier, Mélanie

De: Cawthray, Jenness
Envoyé: 16 janvier 2017 13:33
À: Rivierre, Antoine; Mallet, Pierre; Waters, Christa; Dunne, Erin; Doniol-Valcroze, Thomas; Castonguay, Martin
Objet: RE: AMAC meeting

Thank you Antoine for letting me know. I will forward your comments on the Brian Lester (Chair). He is out of town until Thursday.
Thanks,
Jenness

From: Rivierre, Antoine
Sent: January-16-17 1:28 PM
To: Mallet, Pierre; Cawthray, Jenness; Waters, Christa; Dunne, Erin; Doniol-Valcroze, Thomas; Castonguay, Martin
Subject: RE: AMAC meeting

Hi, everyone
Here is a comment I would like to share with you from our sectorial office in Magdalena Island.

Considering the RAP will be held in march, they think that the proposed date for AMAC is too late. According to them, most of fishers in our region will be in preparation for the next fishing season and will not be available to assist to the meeting.

As I'm new to this file too, please do not hesitate to tell me what you think about that.

Thank you

Antoine

De : Mallet, Pierre
Envoyé : January-16-17 12:57 PM
À : Cawthray, Jenness; Waters, Christa; Dunne, Erin; Rivierre, Antoine; Doniol-Valcroze, Thomas; Castonguay, Martin
Objet : RE: AMAC meeting

Ok with me

From: Cawthray, Jenness
Sent: January-16-17 11:55 AM
To: Waters, Christa; Mallet, Pierre; Dunne, Erin; Rivierre, Antoine; Doniol-Valcroze, Thomas; Castonguay, Martin
Subject: AMAC meeting
Importance: High

Hi All,

Just checking your availability for the AMAC meeting. We are proposing to have this meeting on April 4 or 5, in Halifax. Please let me know if this date works so we can start booking location ASAP. In addition, if I have missed anyone on this list that I should include, please let me know as I am new to this file.

Thomas, will the SAR be available or the results of the new science assessment be available to present for this meeting?

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Thank you,

Jenness Cawthray
Senior Fisheries and Aquaculture Management Officer |
Agent principal, Gestion des pêches et de l'aquaculture
Fisheries and Oceans | Pêches et océans
200 rue Kent Street - 13S013 Ottawa, ON, K1A 0E6
Jenness.Cawthray@dfo-mpo.gc.ca
Telephone | Téléphone (613) 998-1524
Facsimile | Télécopieur (613) 990-7051
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Cormier, Mélanie

De: Doniol-Valcroze, Thomas
Envoyé: 16 janvier 2017 12:48
À: Cawthray, Jenness; Waters, Christa; Mallet, Pierre; Dunne, Erin; Rivierre, Antoine; Castonguay, Martin
Objet: RE: AMAC meeting

Hi Jenness,

Those dates work for me as well.

The mackerel assessment will have taken place four weeks before, so yes the SAR should be written and approved. It probably won't be published on the CSAS website by then, because that usually takes time, but we can likely provide copies for limited circulation because the advice itself should be considered final at that point.

Best,
Thomas

De : Cawthray, Jenness
Envoyé : 16 janvier 2017 10:55
À : Waters, Christa; Mallet, Pierre; Dunne, Erin; Rivierre, Antoine; Doniol-Valcroze, Thomas; Castonguay, Martin
Objet : AMAC meeting
Importance : Haute

Hi All,

Just checking your availability for the AMAC meeting. We are proposing to have this meeting on April 4 or 5, in Halifax. Please let me know if this date works so we can start booking location ASAP. In addition, if I have missed anyone on this list that I should include, please let me know as I am new to this file.

Thomas, will the SAR be available or the results of the new science assessment be available to present for this meeting?

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Cormier, Mélanie

De: Richard, Josée
Envoyé: 16 janvier 2017 12:36
À: Rivierre, Antoine
Cc: Deslauriers, Marcelle; Hardy, Magalie; Morin, Mathieu
Objet: RE: AMAC meeting

Bonjour Antoine,

Comme le RAP a lieu les 8 et 9 mars prochain, je trouve que le comité est beaucoup trop tard (presqu'un mois suivant le RAP). Au moment proposé, les pêcheurs sont entrain de se préparer pour la prochaine saison donc moins de disponibilité pour se rendre à Halifax.

C'est sûrement un commentaire que nous pourrions recevoir de notre industrie aussi.

Josée

De : Rivierre, Antoine
Envoyé : 16 janvier 2017 12:22
À : Deslauriers, Marcelle; Hardy, Magalie; Richard, Josée; Morin, Mathieu
Cc : Boudreau, Suzie
Objet : TR: AMAC meeting

Bonjour
Pour votre information.
Les dates proposées pour le comité consultatif du maquereau atlantique (AMAC) sont le 4 ou 5 avril à Halifax.

Merci

Antoine

De : Cawthray, Jenness
Envoyé : January-16-17 10:55 AM
À : Waters, Christa; Mallet, Pierre; Dunne, Erin; Rivierre, Antoine; Doniol-Valcroze, Thomas; Castonguay, Martin
Objet : AMAC meeting
Importance : Haute

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Thank you,

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Cormier, Mélanie

De: Cawthray, Jenness
Envoyé: 16 janvier 2017 11:29
À: Rivierre, Antoine
Objet: RE: AMAC meeting

Ok. Thanks for letting me know.

From: Rivierre, Antoine
Sent: January-16-17 11:26 AM
To: Cawthray, Jenness
Subject: RE: AMAC meeting

Hi Jenness,

This doesn't works for me this week. I would prefer the week before (or after) if possible.
Thanks.

Antoine

De : Cawthray, Jenness
Envoyé : January-16-17 10:55 AM
À : Waters, Christa; Mallet, Pierre; Dunne, Erin; Rivierre, Antoine; Doniol-Valcroze, Thomas; Castonguay, Martin
Objet : AMAC meeting
Importance : Haute

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Cormier, Mélanie

De: Castonguay, Martin
Envoyé: 16 janvier 2017 10:58
À: Cawthray, Jenness; Waters, Christa; Mallet, Pierre; Dunne, Erin; Rivierre, Antoine; Doniol-Valcroze, Thomas
Objet: RE: AMAC meeting

Hi Jenness,

This works for me.

Martin

Martin Castonguay, Ph.D.
Chercheur et Chef de section Sciences pélagiques /
Research scientist Head of Pelagic science section
Institut Maurice-Lamontagne
Pêches et Océans Canada / Fisheries and Oceans Canada
850 route de la mer, C.P. 1000,
Mont-Joli, Québec,
Canada G5H 3Z4

Tel 1 418 775 0634
Fax 1 418 775 0740
martin.castonguay@dfo-mpo.gc.ca

De : Cawthray, Jenness
Envoyé : 16 janvier 2017 10:55
À : Waters, Christa; Mallet, Pierre; Dunne, Erin; Rivierre, Antoine; Doniol-Valcroze, Thomas; Castonguay, Martin
Objet : AMAC meeting
Importance : Haute

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Cormier, Mélanie

De: Waters, Christa
Envoyé: 16 janvier 2017 10:58
À: Cawthray, Jenness; Mallet, Pierre; Dunne, Erin; Rivierre, Antoine; Doniol-Valcroze, Thomas; Castonguay, Martin
Objet: RE: AMAC meeting

Good for me.
C

Christa Waters
Regional Senior Fisheries Management Advisor
Resource Management | Gestion des Pêches
Maritimes Region | Région des Maritimes
Telephone | Téléphone 902-293-6541

From: Cawthray, Jenness
Sent: January 16, 2017 11:55 AM
To: Waters, Christa; Mallet, Pierre; Dunne, Erin; Rivierre, Antoine; Doniol-Valcroze, Thomas; Castonguay, Martin
Subject: AMAC meeting
Importance: High

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Dunne, Erin

From: Dunne, Erin
Sent: January-16-17 1:08 PM
To: Cawthray, Jenness
Subject: RE: AMAC meeting

I am available.

From: Cawthray, Jenness
Sent: January-16-17 12:25 PM
To: Waters, Christa; Mallet, Pierre; Dunne, Erin; Rivierre, Antoine; Doniol-Valcroze, Thomas; Castonguay, Martin
Subject: AMAC meeting
Importance: High

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s.19(1)

Marentette, Julie

From: Cyr, Charley
Sent: January-17-17 9:17 AM
To: Dominique Robert; [redacted] - NOAA Federal; Michel; Marentette, Julie; Benchabane Samir (DAPPA) (Québec); [redacted] North of Smokey - Inverness South Fishermen's Association; Rivierre, Antoine; [redacted]
Cc: Doniol-Valcroze, Thomas; Castonguay, Martin; Dominique Gascon
Subject: RE: Invitation - Révision du cadre d'évaluation pour le maquereau bleu des sous-régions 3 et 4 / Assessment Framework for Subareas 3 & 4 Atlantic Mackerel
Attachments: Online_survey_ResDoc.docx; WP_modele_maquereau.pdf

Bonjour,

En prévision de la rencontre de demain, voici quelques documents de travail.

Hi,
Please find enclosed two working documents for the meeting on mackerel.

Charley Cyr
Directeur
DAISS
(418) 775-0825
Charley.Cyr@dfo-mpo.gc.ca

De : Cyr, Charley
Envoyé : 12 janvier 2017 10:57
À : Dominique Robert; [redacted] - NOAA Federal'; 'Michel'; Marentette, Julie; 'Benchabane Samir (DAPPA) (Québec)'; [redacted] 'North of Smokey - Inverness South Fishermen's Association'; Rivierre, Antoine; [redacted]
Cc : Doniol-Valcroze, Thomas; Castonguay, Martin; Dominique Gascon
Objet : RE: Invitation - Révision du cadre d'évaluation pour le maquereau bleu des sous-régions 3 et 4 / Assessment Framework for Subareas 3 & 4 Atlantic Mackerel

Bonjour,

Vous trouverez ci-joint l'ordre du jour pour la réunion sur la révision du cadre d'évaluation pour le maquereau bleu des sous-régions 3 et 4. Un document de travail devrait suivre dans les prochains jours.

Hi,

Please find enclosed the agenda for the Assessment Framework meeting for Subareas 3&4 Atlantic Mackerel. A working paper should follows in the next few days.

Charley Cyr
Directeur
DAISS
(418) 775-0825
Charley.Cyr@dfo-mpo.gc.ca

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De : Cyr, Charley
Envoyé : 13 décembre 2016 15:43
Cc : de Lafontaine, Yves
Objet : Invitation - Révision du cadre d'évaluation pour le maquereau bleu des sous-régions 3 et 4 / Assessment Framework for Subareas 3 & 4 Atlantic Mackerel

English follow

Bonjour,

Le centre des avis scientifiques (CAS) de la région du Québec de Pêches et Océans Canada (MPO) tiendra une revue par les pairs régionale intitulée «Révision du cadre d'évaluation du stock de maquereau bleu des sous-régions 3 et 4». La réunion aura lieu du 1**8 au 20 janvier 2017** à la salle A582 à l'institut Maurice-Lamontagne à Mont-Joli, Québec. La rencontre débutera à **9 h le 18 janvier** et devrait se terminer vers 12 h le 20 janvier. Le cadre de référence pour cette revue est présenté en annexe.

La réunion consistera en un examen par les pairs du cadre d'évaluation pour le maquereau bleu des sous régions 3 et 4. L'objectif principal sera d'examiner les modèles pour suivre l'état des stocks et la productivité pour cette espèce. Une réunion d'évaluation du stock devrait avoir lieu plus tard en mars 2017.

Ces réunions se déroulent habituellement en français. Cependant, un service d'interprétation simultanée sera disponible pour cette revue.

Je vous saurais gré de bien vouloir confirmer votre présence à cette réunion au plus tard le vendredi 6 janvier 2017 avec moi par courriel à charley.cyr@dfo-mpo.gc.ca, par téléphonie (418) 775-0825 ou par fax (418) 775-0740. Pour toutes questions ou commentaires, n'hésitez pas à me contacter directement.

Cordialement,

Dear Invitee,

The Fisheries and Oceans Canada (DFO) Quebec Region Centre for Science Advice (CSA) is convening a peer review meeting entitled "Review of the Assessment Framework for the Atlantic Mackerel Stock for the Subareas 3 and 4". The meeting is scheduled for **January 18-20, 2017**, and will be held in Room A582 at the Maurice-Lamontagne Institute in Mont-Joli, Quebec. The meeting is to begin **at 9:00 am on Wednesday, January 18**, and is to adjourn by 12:00 am on January 20. The Terms of Reference for this review is attached to this invitation.

The meeting will be peer review of a science framework of the subareas 3 and 4 Atlantic Mackerel. The main objective will be to review Model(s) to Monitor Stock Status and Productivity for the species. A stock assessment meeting would occur later in March 2017.

Discussions usually take place in French. However, a service of simultaneous translation will be available for this review.

We would appreciate if you would confirm your attendance for this meeting by Friday, January 6, 2017, with Charley Cyr at Charley.Cyr@dfo-mpo.gc.ca; (Tel) 418-775-0825; or (Fax) 418-775-0740. For any questions or comments, please feel free to contact me directly.

Sincerely,

Charley Cyr

Directeur, Avis, Informations et soutien scientifiques
Direction régionale des Sciences

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Pêches et Océans Canada / Gouvernement du Canada
charley.cyr@dfo-mpo.gc.ca / Tél.: 418-775-0825

Director, Scientific Advices, Informations and Support
Science Regional Branch
Fisheries and Oceans Canada / Government of Canada
Charley.cyr@dfo-mpo.gc.ca / Tel.: 418-775-0825

Ma langue, une question de respect
My language, a matter of respect

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Agenda

Review of the assessment framework for Atlantic mackerel in subareas 3-4

Regional Assessment Process Québec Region

January 18-20, 2017
Mont-Joli (Québec)

Chair : Dominique Gascon

Day 1 – Wednesday, January 18, 2017

9h00	Introduction, objectives, terms of reference, and agenda	Dominique Gascon
9h30	Introduction : description of the stock and the fishery, scientific data, main issues	T. Doniol-Valcroze
10h15	*Break*	
10h30	Previous modeling approaches	T. Doniol-Valcroze
11h00	Analysis of non-declared catches	Elisabeth van Beveren
12h00	*Lunch*	
13h00	Structure of catch-at-age model	Elisabeth van Beveren
13h45	Comparison of non-censored model with previous models	T. Doniol-Valcroze
14h30	*Break*	
14h45	Censored model	Elisabeth van Beveren
15h30	Diagnostics and performance	T. Doniol-Valcroze
16h30	End of Day 1	

Day 2 - Thursday, January 19, 2017

9h00	Introduction and agenda	Dominique Gascon
9h15	Discussion on models	All
10h15	*Break*	
10h30	Discussion on models	All
12h00	*Lunch*	
13h00	Reference points and Precautionary approach	T. Doniol-Valcroze
14h00	Discussion on reference points	All
14h45	*Break*	
15h00	Discussion on reference points	All
16h30	End of Day 2	

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Day 3 - Friday, January 20, 2017

9h00	Introduction and recap of Day 2	Dominique Gascon
9h15	General discussion and choice of model framework	All
10h15	*Break*	
10h30	Recapitulation and conclusions	Dominique Gascon
11h30	End of meeting	

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Ordre du jour

Révision du cadre d'évaluation pour le maquereau bleu des sous-régions 3-4

Examen par des pairs régional – région du Québec

Du 18 au 20 janvier 2017
Mont-Joli (Québec)

Président : Dominique Gascon

Jour 1 - mercredi, le 18 janvier 2017

9h00	Mot de bienvenue, objectifs, cadre de référence et ordre du jour	Dominique Gascon
9h30	Introduction : description du stock et de la pêche, données scientifiques, problématiques principales	T. Doniol-Valcroze
10h15	*Pause*	
10h30	Précédentes approches de modélisation	T. Doniol-Valcroze
11h00	Analyse des prises non-déclarées	Elisabeth van Beveren
12h00	*Diner*	
13h00	Structure du modèle de prises-à-l'âge	Elisabeth van Beveren
13h45	Comparaison du modèle non-censuré avec les approches précédentes	T. Doniol-Valcroze
14h30	*Pause*	
14h45	Version censurée du modèle	Elisabeth van Beveren
15h30	Diagnostics et performance	T. Doniol-Valcroze
16h30	Fin du jour 1	

Jour 2 - jeudi, le 19 janvier 2017

9h00	Mot de bienvenue et ordre du jour	Dominique Gascon
9h15	Discussion sur les modèles	Tous
10h15	*Pause*	
10h30	Discussion sur les modèles	Tous
12h00	*Diner*	
13h00	Points de référence et approche de précaution	T. Doniol-Valcroze
14h00	Discussion sur les points de référence	Tous
14h45	*Pause*	
15h00	Discussion sur les points de référence	Tous
16h30	Fin du jour 2	

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Jour 3 - vendredi, le 20 janvier 2017

9h00	Mot de bienvenue et retour sur le jour 2	Dominique Gascon
9h15	Discussion générale et choix du cadre d'évaluation	Tous
10h15	*Pause*	
10h30	Récapitulation	Dominique Gascon
11h30	Fin de la réunion	

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Procès-verbal de réunion

DATE : 17-20 / janvier 2017,

SUJET : Révision du cadre d'évaluation du maquereau zones 3-4 de l'OPANO

Résumé des discussions	ACTION	FAIT
La réunion a pour objectif d'évaluer l'approche analytique qui sera utilisée au mois de mars pour procéder à l'évaluation des stocks. - Identifier les enjeux et les problèmes		
Thomas D-Valcrozen : Introduction La rencontre n'est pas pour discuter de l'état de la ressource, mais pour s'entendre sur le cadre analytique (choix du modèle). Dernière évaluation réalisée en 2014 avec données de 2013. Évaluation de 2016 reportée en 2017 pour mieux travailler avec les Américains. **Biologie :** • Maquereau : espèce pélagique, rapide et hautement migratrice. Maturité sexuelle entre 2 et 3 ans. Pleine entrée dans la pêche vers 3 ans. Longévité de 14 ans. Batch spawners=plusieurs pontes d'œufs par les femelles. • Un seul grand stock transfrontalier avec plusieurs composantes reproductrices. • Le maquereau se tient dans les aux côtières au printemps et été et migre vers les eaux plus profondes en hiver. • La composante canadienne pond dans le sud du golfe, la composante américaine pond au large de N-Y. • Une certaine proportion du maquereau canadien se retrouve capturée dans la pêche américaine, mais l'inverse n'est pas vrai. • Le modèle d'évaluation du stock des régions 3 et 4 est limité à la composante canadienne au contraire des Américains qui considèrent tout le stock. **Historique :** • Beaucoup de pêche dans les années 80 et au début des années 2000. • Depuis 2006, baisse des débarquements jusqu'en 2010 avec de très faibles niveaux de capture depuis. • Pêche géographiquement très vaste. Pêché partout sauf Côte-Nord et Côte Sud de TN. • Beaucoup de pêche à l'ouest de TN, IDM et GASP • En 2013, TN = 70% des prises, QC, 17,2 % • Avant 2000 TN = 10 % de la pêche. Cette proportion s'est accrue pour atteindre son max entre 2005 et 2010. • Pêche à TN =majoritairement réalisée par des grands senneurs (effort de pêche très important) • TN a capturé jusqu'à 44 000 tonnes quand les autres provinces réunies capturaient		

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moins de 10 000 tonnes		
Relevé des œufs • Réalisé au printemps. Échantillonnage réalisé au filet afin de calculer la concentration des œufs. • L'abondance des œufs est transformée en indice sur la biomasse reproductrice grâce à l'information de l'indice de fécondité. • Capable de corriger les données quand le timing du relevé n'est pas en phase avec le pic de ponte. • L'indice d'abondance très élevé dans les années 80, a subi une baisse marquée dans les années 90 et est remonté dans les années 2000 pour retomber au plus bas par la suite. • Tentatives pour trouver d'autres sites de fraie avec des relevés réalisés sur la côte est de TN. Aucun signe de ponte récente dans la baie white et baie Notre Dame. • On continue de considérer que le principal site de fraie se situe dans le sud du golfe. **Autre source de données : Échantillonnage des prises commerciales** • Longueur, poids permet de travailler sur les courbes de croissance et la condition corporelle • Lecture d'otolithes pour la détermination de l'âge. • Données sur la maturité et l'indice gonadosomatique pour déterminer le moment de la ponte printanière. • Prises commerciales souvent dominées par une seule classe d'âge que l'on peut suivre dans le temps. **Considérations environnementales.** • La température a une grande importance sur le maquereau. • Tendances communes d'abondance des larves pour différentes espèces comme le maquereau le sébaste. La température de la Couche Intermédiaire Froide serait une des principales variables. • Quand on intègre les données de l'environnement et du plancton, on est capable de mieux expliquer les variations du taux de recrutement.		
Problématique des prises non rapportées • Une grande partie des prises ne sont pas rapportées (pêche à l'appât ,ventes légales de pêcheur à pêcheur, pêches récréatives). • Grosses différences entre les régions administratives pour le suivi des captures (logbook, contrôle à quai, appel en mer) rendent la comptabilisation des prises difficiles • **C'est un problème majeur qui affecte la qualité de l'évaluation et sa crédibilité !!!!** • Problème souligné de manière de plus en plus insistante comme source d'incertitude, car les prises réelles de maquereau sont grandement sous-estimées. Sans données de captures totales, le processus d'évaluation est sans valeur ! • Message entendu pour essayer de régler le problème. • Il faut inclure cette incertitude dans les modèles		

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Évaluations des stocks antérieures

- Avant 2012, les modèles ne fournissaient pas de données réalistes. C'est souvent le cas quand mortalité par les pêches est très faible par rapport à la taille du stock.
- CPUE a été abandonnée, car pas de confiance dans les données.
- Indice des œufs a été considéré comme l'indice absolu de l'état de la ressource.
- En 2012, introduction d'un modèle de capture à l'âge et l'indice des œufs est devenu un facteur de calibration.
- En 2014, les courbes de croissance utilisée pour évaluer l'indice de mortalité naturelle donnaient des valeurs de mortalité naturelle très variables.
- Grosse cohorte en 1999 avec un effondrement à partir de 2006.
- Les valeurs qui sortaient du modèle sont considérées comme une estimation absolue. Cette estimation d'abondance a été corrigée à la baisse compte-tenue de l'incertitude du modèle.
- Pression de pêche et faible recrutement expliqueraient l'effondrement des stocks.
- Depuis les années 2000, recrutement très faible.
- Taux d'exploitation est devenu très important (% de la biomasse reproductrice) jusqu'à devenir irréaliste.
- Le logiciel utilisé pour faire l'évaluation est devenu désuet, ne tient pas compte des prises non déclarées.
- C'est pourquoi on propose aujourd'hui un nouveau modèle plus flexible pour intégrer des données environnementales.

Élisabeth van Beveren. Résultats d'une étude sur les captures non déclarées

- Il est essentiel de connaitre l'ampleur de la problématique, car on n'a aucune idée du pourcentage des captures non déclarées dans la pêche au maquereau.
- Connaitre quelles pêcheries sont le plus problématiques concernant l'utilisation du maquereau comme appât.
- 2 approches utilisées. Revue de littérature et sondage en ligne

RÉSULTATS - REVUE DE LITTÉRATURE

Terre-Neuve :

- Peu de maquereaux utilisés, principalement du calamar. Le maquereau serait acheté à un seul acheteur et déclaré.

Sud du golfe :

- Michel Comeau, biologiste homard du golfe. Informations non publiées, Enquête en 1991, 2005, 2011. Besoins en appât relativement constant autour de **1 800 tonnes** basé sur les besoins par pêcheurs, leur nombre, et les quantités de maquereau importées. Avant 1990 la quantité était moins importante.
- Pêche au crabe : **moins de 200 tonnes** (source : données du MSC)

PEI :

- maquereau =43 % des appâts utilisés dans la pêche au homard.

Québec :

- Enquête téléphonique entre 2007 et 2010. Captures non déclarées varient entre 54% et 73%. Rejets = -1 % (source : Julie Aucoin)
- 2010 besoins en appâts équivalent, mais moins de débarquement = proportion plus

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élevée de captures non déclarées. • Merinov. Captures 23% plus élevées. Nouvelle-Écosse : • Beaucoup de harengs utilisés pour les appâts. • Pêche au crabe utilise environ **2000 tonnes d'appâts principalement du hareng, du maquereau et du calamar importés.** • 5 tonnes d'appâts utilisées par pêcheur et par an à Baie Ste-Margueritte dont 75 % sont du maquereau. Pêches récréatives Enquête du gouvernement fédéral, réalisée tous les 5 ans, mais qui ne tient pas compte du Québec et considère uniquement les propriétaires de permis pour la pêche récréative. Ces données ne sont pas représentatives.		
RÉSULTATS SONDAGE • Enquête informelle pour atteindre le plus de pêcheurs possible. • Mails envoyés à 3500 pêcheurs. Exception de T-N où les pêcheurs n'ont pas pu être rejoints. • Lien du sondage dans les médias, sur des forums et sur Facebook. • Enquête réalisée fin octobre, juste après la fermeture de la pêche. • 476 formulaires remplis = 5% des pêcheurs qui ont une licence. • Les pêcheurs interrogés ont déclaré avoir pêché 1 536 tonnes en 2016 soit 20 % des prises déclarées en 2016 ce qui donne une bonne représentativité du sondage. • Au total 34 % des captures de maquereau dans le golfe ne seraient pas déclarées. NB et NS sont les deux principales provinces où les captures ne sont pas déclarées. Commentaires des participants : • PEI conscient de la problématique et réclament un système de déclaration volontaire des captures depuis 2013. • Malgré ces résultats l'industrie estime que l'étude sous-estime encore beaucoup les captures non déclarées. • Un seul pêcheur dans le détroit de Northumberland peut pêcher jusqu'à 11 tonnes d'appâts par an. • Beaucoup de maquereau dans la région du golfe serait importé. • Pour le représentant de l'industrie de Nouvelle-Écosse, le DMS serait la seule manière d'évaluer précisément la quantité de maquereaux capturés, car les logbooks ne semblent pas fonctionner. • Quel est l'impact des rejets dans la pêche à la senne ? Maquereau très fragile ! Filets maillants et trappes peuvent capturer beaucoup de petits maquereaux même si les engins sont censés être sélectifs. • Quelle proportion du stock canadien serait capturée en hiver dans la pêcherie américaine ? C'est également une source de captures non déclarées.		
Discussion sur le nouveau modèle d'estimation de biomasse • Le modèle étant gratuit et transparent c'est un énorme avantage sur le plan statistique. Quelqu'un peut lire le code du modèle pour l'améliorer le critiquer et le		

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valider. Le modèle est flexible, prend en compte les effets aléatoires et fixes donc d'un point de vue statistique le modèle est valide. • On peut comprendre la réaction du modèle en modifiant les paramètres d'entrée. • Avec les diagnostics on a vu que le modèle s'ajuste aussi bien, voire mieux aux données observées. • Le modèle peut être utilisé de différentes manières (non censored vs. Sensored). Considérant l'importance des prises non-déclarées l'utilisation de la version censurée avec la détermination de la limite supérieure est une approche analytique très valable.		
Utilisation du modèle et considération des prises non déclarées • Fondamentalement la problématique des prises non déclarée est essentielle pour l'évaluation du stock. • Les prises non déclarées influencent de manière importante les sorties du modèle et donc les résultats de l'évaluation. • Il est nécessaire de déterminer la valeur du plafond qu'on pourra par la suite adapter en fonction des nouvelles informations reçues sur les prises non déclarées. Le défi est de s'assurer que la limite est réaliste. • Également, comme le modèle est flexible, on pourra augmenter la mortalité sur les jeunes classes d'âge si on se rend compte par exemple qu'il y a un fort recrutement et donc plus de rejets de petits poissons. Commentaires de [redacted] (RPPSG) • Il faudra discuter avec les industriels et les pêcheurs sur le terrain pour valider ce qui se passe sur le terrain. • Il ne faut pas négliger l'aspect de la prédation par les phoques, le bar rayé (récréative très populaire qui a augmenté l'effort de pêche). • Les pêcheurs de maquereau ont changé leurs méthodes de pêche et se déplacent quand le bar rayé est présent. • En 2016, pour1000 lb de capture de maquereaux commerciale, c'était environ 3000 lb de maquereau sous commerciaux qui était remis à l'eau avec une probabilité de mortalité très élevée. • À Terre-Neuve, les pêcheurs de homards ne sont pas très lucratifs. Ils n'achètent donc pas leur appât (trop cher) et le capturent directement leur bouette (captures non déclarées). • Si on considère 10 000 pêcheurs de homards, et qu'on évalue à 1t d'appât capturée par pêcheur et par an on est déjà au-dessus du TAC. • Pour l'industrie, le journal de bord électronique est l'issue. Problématique du recrutement • 2016 = beaucoup de captures de petits poissons non déclarées • Recrutement sera visible seulement en 2017 dans les données de pêche		

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(confirmation) • Les sciences sont conscientes que les pêcheurs voient le recrutement un an plus tôt qu'eux. Ceci aura certainement des implications pour l'évaluation du TAC dans les deux prochaines années. •		

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Cormier, Mélanie

De: Castonguay, Martin
Envoyé: 17 janvier 2017 09:15
À: Cawthray, Jenness; Rivierre, Antoine; Mallet, Pierre; Waters, Christa; Dunne, Erin; Doniol-Valcroze, Thomas
Objet: RE: AMAC meeting

Thomas will come in later today but I can tell you right away that March 28 or 29 would be OK.

A PowerPoint giving the main highlights of the assessment can be prepared. If the SAR is not ready, we can simply distribute paper copies of the peer-reviewed summary.

Martin

Martin Castonguay, Ph.D.
Chercheur et Chef de section Sciences pélagiques /
Research scientist Head of Pelagic science section
Institut Maurice-Lamontagne
Pêches et Océans Canada / Fisheries and Oceans Canada
850 route de la mer, C.P. 1000,
Mont-Joli, Québec,
Canada G5H 3Z4

Tel 1 418 775 0634
Fax 1 418 775 0740
martin.castonguay@dfo-mpo.gc.ca

De : Cawthray, Jenness
Envoyé : 17 janvier 2017 08:32
À : Rivierre, Antoine; Mallet, Pierre; Waters, Christa; Dunne, Erin; Doniol-Valcroze, Thomas; Castonguay, Martin
Objet : RE: AMAC meeting
Importance : Haute

Thanks Antoine for your feedback. Is there any opposition to moving the meeting to March 28 or 29 in Halifax?
Thomas, will science be ready to present the results of the SAR at this time. Can we provide an advance copy of the SAR or perhaps a high level PowerPoint summary of the results would be useful.
Let me know so I can pin down a date and look for a venue.
Thanks!
Jenness

From: Rivierre, Antoine
Sent: January-16-17 1:28 PM
To: Mallet, Pierre; Cawthray, Jenness; Waters, Christa; Dunne, Erin; Doniol-Valcroze, Thomas; Castonguay, Martin
Subject: RE: AMAC meeting

Hi, everyone

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As I'm new to this file too, please do not hesitate to tell me what you think about that.

Thank you

Antoine

De : Mallet, Pierre
Envoyé : January-16-17 12:57 PM
À : Cawthray, Jenness; Waters, Christa; Dunne, Erin; Rivierre, Antoine; Doniol-Valcroze, Thomas; Castonguay, Martin
Objet : RE: AMAC meeting

Ok with me

From: Cawthray, Jenness
Sent: January-16-17 11:55 AM
To: Waters, Christa; Mallet, Pierre; Dunne, Erin; Rivierre, Antoine; Doniol-Valcroze, Thomas; Castonguay, Martin
Subject: AMAC meeting
Importance: High

Hi All,

Just checking your availability for the AMAC meeting. We are proposing to have this meeting on April 4 or 5, in Halifax. Please let me know if this date works so we can start booking location ASAP. In addition, if I have missed anyone on this list that I should include, please let me know as I am new to this file.

Thomas, will the SAR be available or the results of the new science assessment be available to present for this meeting?

Thank you,

Jenness Cawthray
Senior Fisheries and Aquaculture Management Officer |
Agent principal, Gestion des pêches et de l'aquaculture
Fisheries and Oceans | Pêches et océans
200 rue Kent Street - 13S013 Ottawa, ON, K1A 0E6
Jenness.Cawthray@dfo-mpo.gc.ca
Telephone | Téléphone (613) 998-1524
Facsimile | Télécopieur (613) 990-7051
Government of Canada | Gouvernement du Canada

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Cormier, Mélanie

De: Waters, Christa
Envoyé: 17 janvier 2017 09:04
À: Cawthray, Jenness; Rivierre, Antoine; Mallet, Pierre; Dunne, Erin; Doniol-Valcroze, Thomas; Castonguay, Martin
Objet: RE: AMAC meeting

Good for me.
C

From: Cawthray, Jenness
Sent: Tuesday, January 17, 2017 9:32 AM
To: Rivierre, Antoine; Mallet, Pierre; Waters, Christa; Dunne, Erin; Doniol-Valcroze, Thomas; Castonguay, Martin
Subject: RE: AMAC meeting

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Subject: AMAC meeting
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Bruxer, Shelby

From: Cawthray, Jenness
Sent: January-17-17 11:37 AM
To: Gibson, Andrea
Cc: Jenkins, Randy
Subject: MECTS-#3624719-v9-QP_Atlantic_mackerel_TAC_2016.docx
Attachments: MECTS-#3624719-v9-QP_Atlantic_mackerel_TAC_2016.docx

Importance: High

Mackerel QP update.
Thanks!
Jenness

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ATLANTIC MACKEREL FISHERY

General Lines:

- Our government ensures that fisheries management decisions for all stocks, including Atlantic mackerel include consideration of the best available science.

- The Department closed the Atlantic-wide commercial fishery to all fleets on October 14 for the remainder of the year as, commercial catches had reached the established catch level for 2016. While signs of significant catches in some areas are positive, we need to ensure harvesting decisions do not impede this stock's rebuilding.

- The Department will undertake a new stock assessment for Atlantic mackerel in the winter of 2017, which will include more data. This updated assessment will be relied upon to make future decisions for this fishery.

If pressed:

- In all cases, DFO will close a fishery for conservation reasons, as was the case for the 2016 mackerel fishery.

- Officials will work with those involved in the mackerel fishery to develop options for improving real-time information on the progress of the fishery before the next fishing season in 2017.

If pressed on judicial review:

- The Department will not comment on this matter, as it currently before the Court.

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Message général:

- Notre gouvernement veille à ce que les décisions de gestion des pêches pour tous les stocks, y compris celui du maquereau bleu, se fondent sur l'examen des meilleures informations scientifiques disponibles.

- Le Ministère a fermé la pêche commerciale dans l'Atlantique à l'ensemble des flottilles le 14 octobre pour le reste de l'année puisque les prises commerciales ont atteint le niveau de prises établi pour 2016.

- Même si les signes de prises dans certaines zones cette année sont positifs, nous devons nous assurer que les décisions en matière de récolte n'entravent pas le rétablissement de ce stock.

- Le Ministère entreprendra une nouvelle évaluation des stocks de maquereau bleu au cours de l'hiver 2017, qui comprendra plus des données. Les décisions futures concernant cette pêche seront prises en fonction de cette évaluation mise à jour.

Si on insiste:

- Dans tous les cas, le MPO peut la fermer pour des raisons de conservation, comme cela a été le cas pour la pêche au maquereau cette année.

- Le Ministère n'a pas l'intention de rouvrir la pêche commerciale cette saison.

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- Afin de répondre aux préoccupations de certains pêcheurs concernant l'accès au maquereau en tant que poisson-appât cet automne, les pêcheurs qui détiennent un permis d'appât pour utilisation personnelle au filet maillant ont été autorisés à utiliser les lignes à main pendant un peu plus de deux semaines au début du mois de novembre, avec une limite quotidienne réduite.

- Les prises de poissons-appâts pour utilisation personnelle ne peuvent pas être vendues.

s.23
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Background:

- TAC decisions are based on long-term conservation and sustainability principles and take into consideration the department's management plan, scientific advice, as well as consultation with industry.
- The most recent (2014) science stock assessment results indicate the Atlantic mackerel stock biomass was at the lowest observed level in the time series (1967-2013). The assessment also indicated the stock was over-exploited from 2010-2013 and has continued to decline at recent harvest levels.
- At the same time, industry has reported significant quantities of small mackerel in many areas of Atlantic Canada, with a few noting a greater presence of larger fish in 2014 and again in 2015. Industry also stated that mackerel are very cyclical by nature and therefore decreases in catches are not always indicative of a declining stock biomass.
- In the absence of new science advice, and following consultation with its key stakeholder group, the Atlantic Mackerel Advisory Committee, the TAC was maintained at 8,000 tonnes.
- Given significant catches by the Newfoundland inshore fleet in the past month, the TAC level is close to being reached.
- The Department closed the Fishery on October 11 to get a good understanding of overall catches from this Atlantic-wide fishery.
- This fishery has never been closed in the past given that the TAC levels were never reached. Commercial landings in this fishery have been in the range of 5,000t per year the past two years.
- To address some harvesters' concerns regarding access to mackerel for bait this fall, those harvesters with gillnet personal use bait licences were permitted to use hand lines for just over two weeks in early November with a reduced daily limit.
- The offshore fleet (large seiners) did not have an opportunity to fish as they were just starting when the Department closed the fishery.
- On November 9, 2016, Barry Group Inc., Pride Ventures Inc., 67108 Newfoundland & Labrador Inc., and Gauvin and Noel Compagnie Inc. filed a judicial review application in the Federal Court challenging decisions made to close the 2016 Atlantic Mackerel Fishery in all areas on October 14, 2016, and subsequently, on October 21, 2016 to maintain the closure as a result of the assessment of commercial catch rates. The Applicants submit that the decisions effectively prevented the over 65' fleet (to which they belong) to harvest their share of the total allowable catch.
- The FFAW had requested that the Minister increase the available quota to Canadian inshore harvesters this year based on recent good catch rates.
- Fishermen have reported a significant number of small fish throughout the Gulf of St. Lawrence this year which may be the sign of good recruitment.
- Following the completion of a 2017 stock assessment, DFO will be in a better position to make a decision based on the latest scientific findings.
- In the meantime, DFO is carrying out science and resource management initiatives to help promote the sustainability of the fishery:
    - Gathering updated data from industry
    - Using data provided from the 2017 stock assessment
    - Increasing its knowledge of changes in Mackerel distribution
    - Increasing its knowledge of the impact of bait or recreational fisheries and working with industry to find new sources (such as herring) for bait.
    - Carrying out a new egg survey to determine if there are any new or significant spawning areas for mackerel off the northeast coast of Newfoundland in collaboration with industry and other stakeholders.

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Contexte

- Le TAC est établi en fonction des principes de conservation et de durabilité à long terme en tenant compte du plan de gestion du Ministère, des avis scientifiques et des consultations avec les intervenants de l'industrie.
- Les résultats les plus récents (2014) de l'évaluation scientifique du stock indiquent que la biomasse du stock de maquereau bleu était au niveau le plus bas observé au cours de la série chronologique (1967-2013). L'évaluation indiquait aussi que le stock avait été surexploité de 2010 à 2013 et que le stock continue à diminuer jusqu'à atteindre les récents niveaux de prises.
- Au même moment, l'industrie a signalé d'importantes quantités de petits maquereaux bleus dans plusieurs régions du Canada atlantique, et une présence accrue de poissons plus gros dans certaines zones en 2014, et de nouveau en 2015. Les intervenants de l'industrie ont également signalé que le maquereau est une espèce qui suit des cycles et que les diminutions des prises ne témoignent donc pas toujours d'une diminution de la biomasse du stock.
- En l'absence d'un nouvel avis scientifique et à la suite des consultations menées auprès du groupe d'intervenants clés, le Comité consultatif du maquereau bleu, le TAC a été maintenu à 8 000 tonnes.
- Vu l'importance des prises réalisées par la flottille côtière de Terre-Neuve le mois dernier, le niveau du TAC est presque atteint.
- Le Ministère a fermé la pêche sur le 11 octobre afin de parvenir à une bonne compréhension de l'ensemble des prises de cette pêche dans l'Atlantique.
- Cette pêche n'a jamais été fermée dans le passé puisque les niveaux du TAC n'ont jamais été atteints. Les débarquements de cette pêche sont de l'ordre de 5 000 t par an ces deux dernières années.
- Certains pêcheurs du Golfe disent redouter de ne pas pouvoir pêcher d'appâts en vertu de leurs permis de pêche d'appâts actuels, qui limitent leur pêche aux filets maillants. Le Ministère est en train d'évaluer s'il peut autoriser l'utilisation de palangrottes pour les pêches d'appâts cet automne.
- La flottille hauturière (grandes sennes) n'a pas encore eu l'occasion de pêcher puisqu'elle commençait à peine lorsque le Ministère a fermé la pêche la semaine dernière. Elle envisagerait une action en justice.
- La FFAW a demandé au ministre d'augmenter les quotas disponibles pour les pêcheurs côtiers canadiens cette année compte tenu des bons taux de prises enregistrés récemment.
- Une fois l'évaluation du stock de 2017 terminée, le MPO sera plus à même de prendre une décision en fonction des dernières constatations scientifiques.
- D'ici là, le MPO mettra en œuvre les initiatives suivantes en termes des sciences et de gestion des ressources afin de contribuer à la promotion de la durabilité de la pêche :
    - Collecte des données mises à jour de l'industrie;
    - Utilisation des données provenant de l'évaluation du stock de 2017;
    - Amélioration des connaissances relatives aux modifications de l'aire de répartition du maquereau;
    - Amélioration des connaissances relatives aux répercussions des pêches au poisson-appât et des pêches récréatives, et travaux avec l'industrie en vue de trouver de nouvelles sources (comme le hareng) pour les appâts;
    - Réalisation d'un nouveau relevé des œufs en collaboration avec l'industrie et les autres intervenants afin de déterminer s'il existe de nouvelles ou d'importantes zones de frai de maquereaux sur la côte nord de Terre-Neuve.

Name of Analyst: Brian Lester

Sector: Ecosystems and Fisheries Management
Telephone number: (613) 990-0090

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Dunne, Erin

From: Dunne, Erin
Sent: January-17-17 11:49 AM
To: Cawthray, Jenness
Subject: RE: AMAC meeting

I am available Mrach 28/29.
Erin

From: Cawthray, Jenness
Sent: January-17-17 10:02 AM
To: Rivierre, Antoine; Mallet, Pierre; Waters, Christa; Dunne, Erin; Doniol-Valcroze, Thomas; Castonguay, Martin
Subject: RE: AMAC meeting
Importance: High

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De : Mallet, Pierre
Envoyé : January-16-17 12:57 PM
À : Cawthray, Jenness; Waters, Christa; Dunne, Erin; Rivierre, Antoine; Doniol-Valcroze, Thomas; Castonguay, Martin
Objet : RE: AMAC meeting

Ok with me

From: Cawthray, Jenness
Sent: January-16-17 11:55 AM
To: Waters, Christa; Mallet, Pierre; Dunne, Erin; Rivierre, Antoine; Doniol-Valcroze, Thomas; Castonguay, Martin

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Subject: AMAC meeting
Importance: High

Hi All,

Just checking your availability for the AMAC meeting. We are proposing to have this meeting on April 4 or 5, in Halifax. Please let me know if this date works so we can start booking location ASAP. In addition, if I have missed anyone on this list that I should include, please let me know as I am new to this file.

Thomas, will the SAR be available or the results of the new science assessment be available to present for this meeting?

Thank you,

Jenness Cawthray
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Mackerel - Framework Meeting

Date Jan 18/17

History - Thomas Doniol-Valcroze

- last eval 2014 ; 2016 delayed to 2017
- Dec 2016 - eggs were discussed
- Jan 2016 - model discussion
- Mar 2017 - new data, assessment + stats

- 26 cm - 2 years, maturity
- Canadian fish → American winter fishery
- This is why Canada only does 3+4
- American also does 3-6
- 2004 - 2010 decrease in both landings (US → Can)
- NFLD > QC > PEI > NS > NB
  69.2%
- but NL only imp after 2000, and that is when seine ↑↑
- June egg survey in southern GSL
  → Index high in 1980s → decrease in mid 90s, slight ↑ in mid 2000s and back down
  → looked for other egg spots in north of NL in 2015-2016 but nothing

- comm. sampling in all regions
  → length, W-L, growth, age, maturity, GSI

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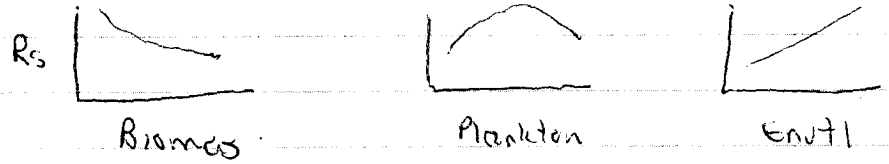
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- last assessment → envtal conditions (temp) → migration → spawning links; link between spawn - feeding times, change in spatial distn → spatial temps
- larval abundance trends in common w other spp (cod, capelin, RF, limacle) ↳ cold layer + plankton

Plourde et al 2015a



↳ all factors together ↑↑ explanation of Rs

Problems
- non-reported catch
- MLA used as bait for lobster + crab
- personal use, fisher to fisher sold, recreational, incomplete logbook
- regional differences in how catch is accounted for
- recreational as important as commercial in some regions (issue w industry)

Q - electronic logbooks? used in US
A - still regional differences

Q - eggs - time limits?

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cadre = framework

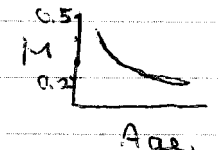
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A - Survey 1-2 weeks duration
- aim to complete within egg only period
- discard if timing off
- if commercial catch GSI indicates that maturity is not aligned

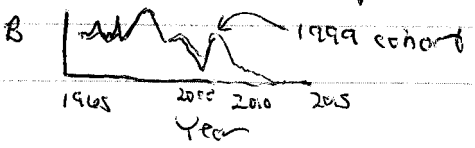
Q - what areas where recreational = commercial?
A - see Elizabeth's talk

1986-2012
- SPA, did not converge F<<M
- M = 0.3, then 0.2 based on feedback
- Indexes were derived from fishery → abandoned
- not enough confidence
- Egg index → absolute b/c no alternative

2012-2014
- Integrated catch-at-age model (ICA software)
- Adjusted egg index
- $M_{2012} = 0.2$, $M_{2011} = $ Gislason et al. 2010
- used data 1968-2013
- S = 1.2, age 1-10



varies by cohort



Retrospective Pattern
Rho = 0.2275
Adj factor = 0.81460

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- Recruitment has ↑ and ↓ episodes, but ↓ in freq since 1980's. Now good years separated by long periods

[redacted]

- eg commercial catch 75% of all biomass but that's an underestimate

- ICA software obsolete

Q - does survey overestimate eggs (does egg density ↓ at edges)
A - egg survey reviewed at Dec 2016
- Irigin → not likely artefacts at edges
- should see decline
- avg of stations → really same result
- spawning area also shrunk + moved west, so unlikely missing anything

Q - do we see any larvae in North Gulf
A - we do vertical tows, not a great sampler, meant for plankton

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Analysis of Non-Declared Catch - Elizabeth Van Beveren

- other things that can influence catch
- discards, bycatch
- 2 approaches: literature + online survey

Literature

→ NFLD - few MKL bought by single buyer + declared
- MSC - bait used is almost all squid
→ Southern Gulf - Michel Comeau surveyed lobster fishers. <1990 bait less important - since salted bait
>1990, 1800 t bait
- MSC report crab bait 187.5 t
- PEI - Lavallee et al 1997: 43% lobster bait is 43% MKL
→ Quebec - 2007-2010 telephone survey in Magdelene Islands
→ 54-73% catches not declared (bait + discards)
- 2006-2010 MERINOV report
→ catch 23% higher (crab bait) than reported
→ N.S. MSC - offshore lobster fishers use only herring
Crab: 2000 t (herring, MKL, Squid) from int'l bait trade
- Harnish et al. 2002-2004: 5,216 t bait / harvester, 1682 harv., 75% MK

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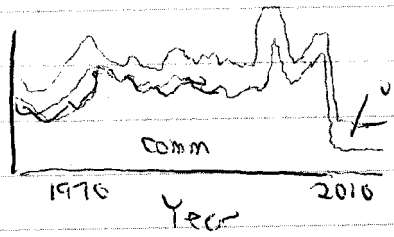
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Tuna - (bait) catch at least 5x smaller than crab/lobster fisheries
→ use Gulf logbook data

Rec fisheries - every 5 yrs in Canada
- 1990-2010 per province
- PEI + NS, MKL is 2nd most spp caught after trout. incl FW spp - not all need licences
- but Quebec not incl., only licences, if semi-commercial, not honest about it





discard 2%/yr

→ lots of assumptions to make this graph
→ early years more estimate

Online Survey
- no info in recent years (→ 2010), want to confirm what we knew
- 3453 email (QC, NB, NS, PEI) - no NL since all licenses → not as prevalent
- 3 FB groups, Radio IM, Fishers, NovaNews
- done in 2016 after comm. fish. closed
- 476 forms returned
- 2014 → DFO stats, 8032 licenses
→ at least 5% response
- Catch 2016 ~8000t (TAC)
- declared catch survey participants (15360 = 1990)

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- nice representation of Geography
- some representation of ~~bar~~ recreational fishers
  even the not ~~reported~~ targeted
- lobster is for main use for MKL
  Tuna, Snow crab, Halibut
- Overall, only half of MKL is "commercial" and 29.3% is combination (20% "bait")
  → 48.9% labelled "bait", but "other" can also be for bait (could be underestimate)
  → >95% of NB catch undeclared, in rose in NL
  → but only 1 buyer in NL

Q - in PEI - no report of comm. data either although fishers request data
- also may have responded ~~better~~ if it would have come from fisher's association

Q - regarding consistency of demand for bait
+ Discussion

A - these are rough approx, but the 2 approaches → same cond., 50-100% undeclared vs declared

Q - PEI industry - could be 5x as much bait as catch, also offshore doesn't just use here, 1 buyer alone 1.5m lbs
- [redacted] sells licences for comm and requires reports. 1.15 m lbs?

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- gives other examples
- PEI seiners? need more info

A - this survey is a starting pt, not a formal thing
- we are underestimating the problem

Q - so this exercise is to get the upper cap?
- if the model bumps up against the cap a lot, then these underestimates are a problem more than we think

A - we will discuss this afternoon

Q - logbook isn't work, dockside monitoring
- Trudeau has promised $1.5 billion, we want this for monitoring

Domine A - this should be brought up to management at advisory meeting

Q - today's fishery -> seine
A - impact of discards - not likely surviving if mouth ripped

Q - how are province answers totalled up?
A - the graph isn't from just survey data, is adjusted by needs for bait

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Q is logbook data used?
A - not for lobsk, is this possible to use?
Q - yes I have it

A - discrepancies + variation in data are extensive, survey and reliable data, almost better to have no data

Q - so far last few years, logbooks → way to corroborate
A - we know now there is lots more data available + need to talk to ppl
- model structure may proceed if you agree, but undecl. catch max needs to be incl, can be updated later
- if you know more sources of data, pls share

Q - one other big source of undecl. catches, the US! all our fisheries are monitored but an unknown northern portion is being harvested
A - very good point, almost impossible to estimate proportion
- we have never incl US landings in Canada, but US includes all units
- we hope for a future joint model
Q - I have some ideas but not easy

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A - one of things I suggest is our maxima is too conservative, will be more clear when we discuss models later

Martin - our aim is to have ppl agree to this upper limit

Dom - do we need this yet? need to discuss model 1st

Censored Catch Model

- lower-upper limits to tell model where to look
- lower = declared
- upper = often a multiple (eg 2x)
- wanted an informed upper
- not used much, 1st time in 2005, 2010 and 2016 (TMB - R pkg Template model Builder)
- TMB based on ADMB, write C++ code then in R TMB calculate objective fxn, then optim or nlminb, → parameters + SD

- all obs on log scale
- process + obs error are normal unless stated
- random effects: $F_y \sim N(a_y)$

as in Nielsen-Berg (2014)

- will also use Codiyan's model
- recruitment age 1

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$a = 1 \quad N_{1,y} = f(SSB_{y-1}, \epsilon_1)$

$a = 2 - A-1 \quad N_{a,y} = N_{a-1,y-1} \exp(-Z_{a-1,y-1} - \delta_{a-1,y})$

$a = A \quad N_{a,y} =$

[redacted]

Error dist^{n}s

1. log normal
2. t-dist^n df = 3
3. Mix of normal and t
   - robust normal - t (df = 3)
   - ultrarobust normal - t (df = 1)
     - heavier tail
     - 50 years of RT recruitment covered

$M = 0.2$

$F = F_y \cdot F_a$ — F_y: random walk; F_a: estimated freely, held identical ages 6-10

- we didn't use a matrix as it req. too many devs

Q - could also have $F_{a,y}$ as random effect not just F_y

Q - why is M fixed?

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Erin A - if we use run B, we get too high values. 0.7. Although M almost certainly varies it is simpler for model

Q - could you also use a fixed from Gislason

Erin A - still gives value too high, and G has been criticized

Thomas A - we know Gislason was approved at last assessment meeting
- we can return to this after the model has been discussed
- very young age having higher mortality did increase model fit
- growth is so variable so better to have M vary by age but not over time

[redacted] Q - it should be very easy to change this

A - if it is feasible we will compare w Francois' old model

Process Error
- on N, accounts for migration, 0 in M
- Cadigan 2016: lag 1 autocorrelation process error on year + age
- value of SSB from egg index

Survey Index

$$I_y = \sum_{y=1}^{\infty} q N_{a,y} \exp(-Z_{a,y} t_s) Wt_{a,y} Prop Mat_{a,y}$$

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Q - we calculate SSB in wt?

A - the parameters we use, we translate eggs → SSB and for that we need avg wt
- we have a view that index is always independent, but if we adjust a mass, may not be

Q - catchability, may △
A - we tried to vary Q but didn't help
Q - Q determines how we interpret eggs

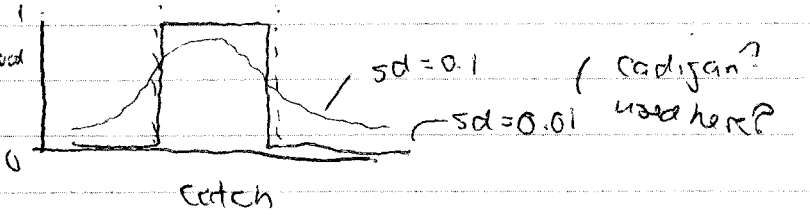
Catch

↳ Baranov eq'n / basic model

Cadigan 2016
- Total annual catch - (un) censored
- Catch-at-age - continuation-ratio logit approach
↳ ordinal ordered response

- different $\sigma^2_{c,i}$ for diff ages
1, 2+3+4, 5-8

- model gives likelihood values within given boundaries



Cadigan? used here?

- we have reasons to doubt limit, so maybe make these less sharp

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- Censor total catch
- 2 stages
  - 1) match to "mean" catches using uncentered state
    - ↳ match to original update initial parameter

→ important to have good starty values if censored

? Q - Cadigan model (cod) - have since Δ, lower limit did Δ

Model - can estimate ref points
↳ SSBmsy, Fmsy, etc

[redacted] Q - consider catch as random effect - starting point, can you predict declared catch? Then you don't need lower bound

Thomas A - what is the difference?

[redacted] Q - need to read Cadigan paper Too many errors, may be why he went for fancy fxn

[redacted] random is random
- depends on Bayesian or not ?

Thomas - in one of Noels papers, UL was ∞
Eliz - (correction)

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Thomas - help to inform upper limit

O(Dominic) - is all error on catch

Thomas - no, some on observation too but hopefully we have constraints

Thomas - we don't want to penalise the model too much. It can produce as much as it needs to but keep to S-R relationship

[redacted]

Thomas - censored approach - uncertainty of undecl. catch within limits we give it
- even the uncensored model differs from ICA approach due to fundamental diff
- catches were adjusted

- we use rec fishers to define upper limit
- the relationship between decl + undecl catch shown
- 3 models compared
- intuitive = ~~2~~ x declared x 1.75 (based on 2016 survey)
- green = informed by period/zone

[redacted] did you try ∞?

E - I tried 3-4 x. The higher I set the limit, the higher the catches go due to ↑ uncertainty

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Thomas - we are often quite close to upper limit so this is why informed upper limit

[redacted] I don't know how you can predict catch
Elizabeth - Barance, then sum catch at-age
Thomas - if catch > limit, likelihood kills it
[redacted] on so CoV = fixed parameter
Elizabeth - we derive from other items

~~Thomas~~ - ;
Q - will we be work for declared or undeclared catch?
Thomas - most ppl think it is a good idea to report more catch
- TAC - ded or undecl? we need to be careful

[redacted] - we need measure of dispersion - does green overlap pink? 95% CI?

Q - re: Process Error envtal?
- what if we remove it?
Thomas - would put all error in obs error
Elizabeth - the only time I tried this it didn't work

Q is SSB similar to what we get from eggs
Eliz - SSB always below. Same in Francois model. Egg values so extreme, no model can reach

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Thomas - give model more flexible not helpful since 1996+ egg surveys lower than in earlier years

Phone - MLL from elsewhere?

Thomas - in 1980s, q changed (links to egg estimate). Our model follows same general pattern as egg survey
- not a new problem

[redacted] - why doesn't 1999 year class show in model

Thomas - it does, just not as much as egg survey suggests

Elizabeth - recruitment always underestimated not only stock in this issue

Thomas - eggs ≠ → ↑ recruitment

Does fecundity ↑ in strong year classes?

Restrospective Pattern

$Rho_{SSB} = -0.89$ $Rho_{\bar{F}_{1-10}} = -0.86$

→ weak

Q - things seem to be less precise

A - I think the egg survey - SSB effect once enormous, if you take 2003

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[redacted] Q - what egg surveys were removed?

Elizabeth A 92, 1995, 97, 99, 2001, 2006. We have not changed this from past assessments.
(92: not done; 2001: wrong area & time)

[redacted] Q - Pattern in process error

Thomas A - we expect to see patterns in past few years

Residuals

Thomas - fairly well spaced

Elizabeth - no effect on model but may ↓ estimate error

Thomas - egg residuals tightly related
- but some outliers
- need reason to ∆ egg survey

Martin - ship turbulance (back-deployment) may effect results
- once we changed ship → size deployment
- may explain some issues

Phone - we have to consider migrants from US could also come in on occasion

Q so since residuals random → q is constant?

Elizabeth - obs → pred eggs match better than SSB obs → pred

[redacted] - SSB adjusted wrong way?

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Elizabeth - to verify the model, simulations. Idea is to predict model, resample data (catch at age matrix, egg survey) bootstrap 400x
↳ from norm dist^{n}

[redacted] so like a Monte-Carlo

Thomas → pulled from error dist^{n} → pseudodata

Thomas - can't replicate SSB
$\bar{F}_{1-10}$ ok

Elizabeth - had to explain
- model wants less SSB than egg survey wants

Sensitivity Analysis

Thomas - value of non-decl catch import
- if UL continues to ↑, catch predictions ↑
> 140% UL falls apart for F, SSB, but only pink (intuitive?)

Compare to ICA

Thomas - no choice, software obsolete, but closer model now improved
- when limit ↑, it will have an impact by UL

[redacted] - only peaks affected, not most recent years anyway

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Thomas - comparison is hard, process error, etc, other error structures, all differ, M, etc
egg survey too (now added more)

- exploitation rate → 37%! in old model
- uncensored, reaches 72%
- censored, 64%

- still predicts ½ biomass
→ still had to believe
→ but at least an improvement
→ remains a problem

- we cannot re-use the program at all (ie, 2014 models)
- new system ↓↓ Rho

- ~~egg survey~~

Q - can't we use same M as 2014?
A - maybe simpler

Thomas - had to compare egg survey indices since old model only used since 1996
- catch-at-age log now, logit then, but residuals better now

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Thomas - list for tmmw:
- we need to better compare in models in 2014
- want to run in same M (Giselan)
- and eggs 1986 to now
- people know M 1st for age 1+2

Dom - have avg value, not mix growth parameter

Thomas - CIs
- sensitivity of TUL of F over time

[redacted] - not sure play in M is helpful, already partly done, also not sure how to interpret models anyways

[redacted] - what abt Lorenzen approach, time-invariant
- could also try varying prop. of US catches

Thomas - would this Δ over time?

[redacted] - habitat work using temperature → affects southern migration

Thomas - we haven't talked abt envtal factor and S-R → will show tmmw
- will choice of M affect this model being selected?

Martin - this is to compare old vs new

Dom - will need to be able to explain to industry any Δ, but doesn't affect model

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Thomas - not using old model as a standard - but I've been asked if we are comparing them

Q - so why are we going back to 0.2 and throwing out the M of 2014? Criticism of 0.2 is real

[redacted] in 2014, we didn't deeply analyze M then either, just → assessment

Q - in 2014, the M also took all these undecl catches

Phone - I see this more + more, M fixed by time, varies by age

Martin - can get mature fish at age 1

Thomas - we need to make a case for any changes

★ Q - how do we deal in UL when it's not high enough? so what do we do in March

Thomas - not able to do overnight but can discuss tmmw

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Cormier, Mélanie

De: Cyr, Charley
Envoyé: 18 janvier 2017 10:29
À: Rivierre, Antoine
Objet: presentation cadre maquereau
Pièces jointes: 2017.01.18 Mackerel framework meeting.pptx; mackerel_framework_intro.pdf

Antoine,

Voici les présentations

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Ma langue, une question de respect
My language, a matter of respect

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Mackerel framework meeting

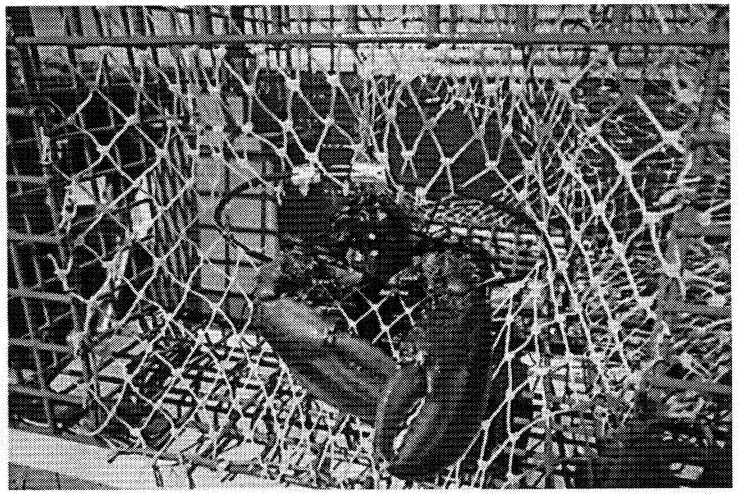


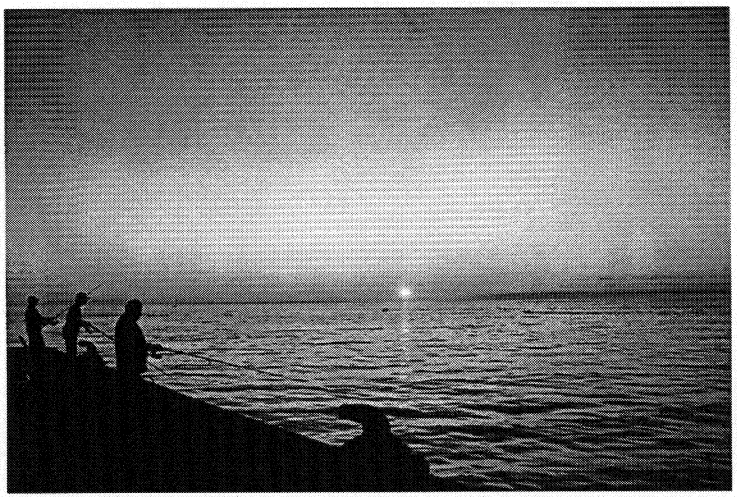
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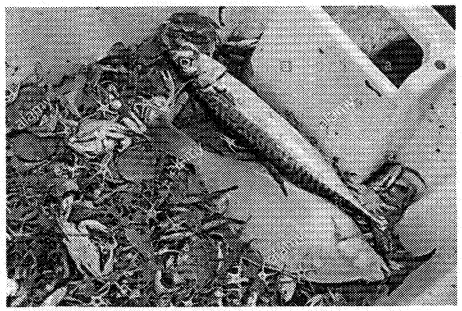
Analyse des prises non-déclarées

Analysis of non-declared catches

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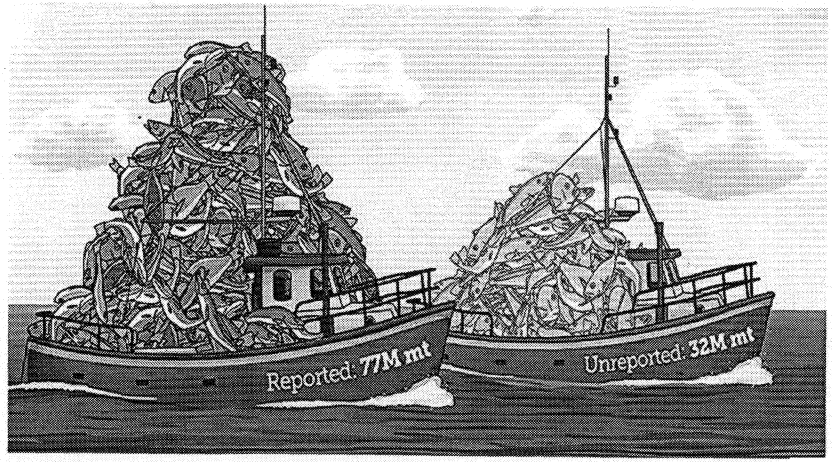
Analysis of non-declared catches

Aim:

* Improve knowledge: amplitude, what data available, etc.
* Use this in modelling

2 complemetairy approaches:

* Literature (appendix pdf)
* Online survey (word doc)



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Part 1

Literature

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Bait

* Newfoundland
  * Few mackerel bought by single buyer and declared
  * MSC: bait used is almost exclusively squid

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Bait

* Southern Gulf
  * 1993/2005/2011: lobster fisher survey (Michel Comeau)
    * => annual bait quantity constant
    * >1990: 1800t (5,38t bait/harvester *0.11% fresh mackerel * ~3000 harvesters)
    * <1990: mackerel bait less important
  * MSC: crab bait: 187,5 t
  * PEI:
    * Lavallee et al., 1997: 43% lobster bait is mackerel
    * Robert MacMillan (resource monitoring program lobster): Past 16 years, herring and mackerel most used lobster baits.

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Bait

* Quebec:
  * 2007-2010: telephone survey Magdalen Islands

    => 54-73% catches not declared (bait+discards)
  * 2006-2010: MERINOV report

    => catch 23% higher (crab bait)

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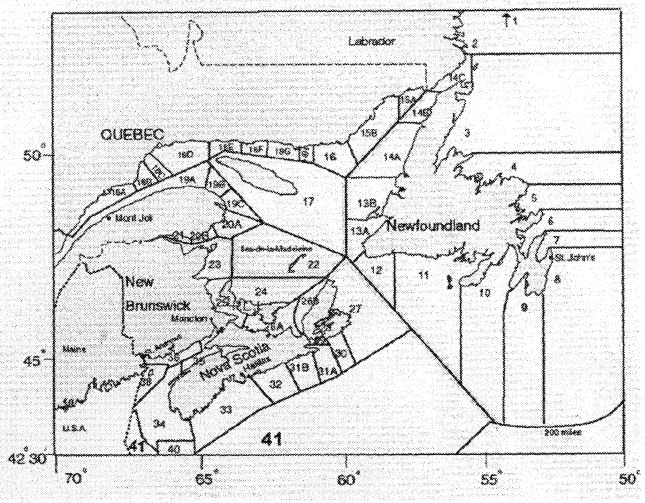
Bait

* Nova Scotia:
  * MSC:
    * offshore lobster fishery uses only herring
    * Crab: 2000 t, mostly herring, mackerel and squid obtained from the international bait trade
  * Harnish et al. (2002-2004):

    5,216t bait/harvester

    (1682 harvesters, 75% mackerel)

Canadian Lobster Fishing Areas (LFA)



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Tuna

* Catches at leat 5X smaller than for crab/lobster
* Gulf (logbook data)

Année	Appât utilisé_Code	Appât utilisé_Description	Montant (lbs) capturé pour appât	Nombre de permis
2013	200	Hareng	12125	280
2013	202	Hareng/Maquereau	1645	41
2013	250	Maquereau	9540	412
2013 Total			**23650**	**764**
2014	200	Hareng	9686	221
2014	202	Hareng/Maquereau	741	32
2014	250	Maquereau	11508	577
2014 Total			**22765**	**856**
2015	200	Hareng	9001	241
2015	202	Hareng/Maquereau	2660	55
2015	250	Maquereau	12068	590
2015 Total			**25323**	**959**

Lemay, Gaëlle

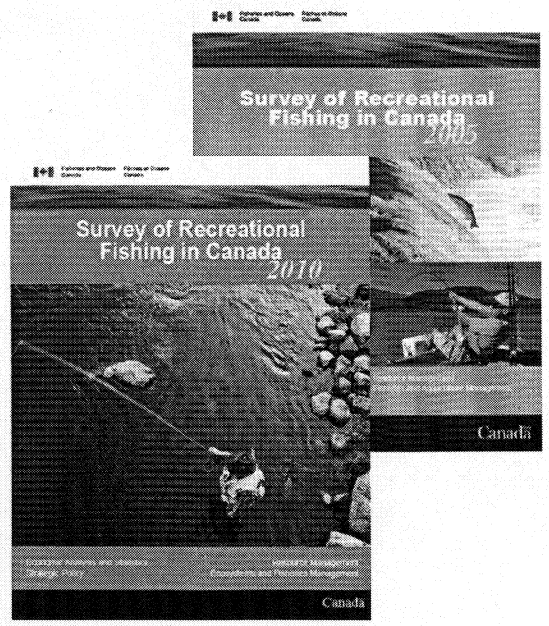
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Recreational fishing

Survey of Recreational Fishing Canada

Every 5 years (1990-2010), per province

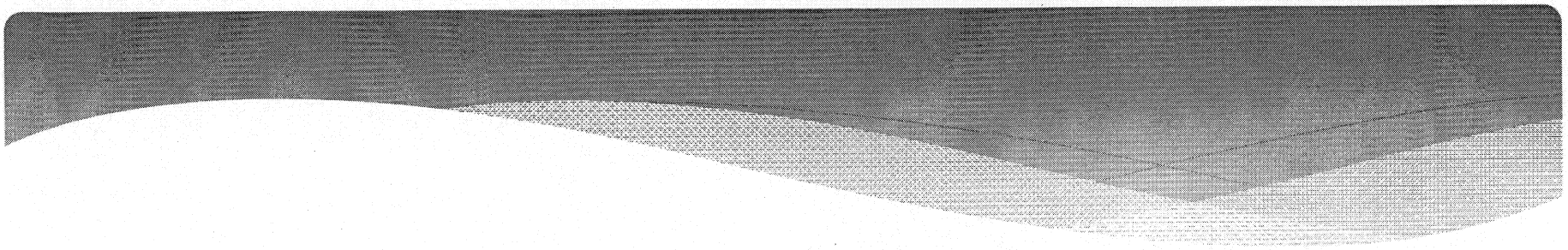
PEI and NS: mackerel second main species caught by anglers in Canada (after trout) and including all freshwater species. In contrast to freshwater species, mackerel are also kept in most of the cases.

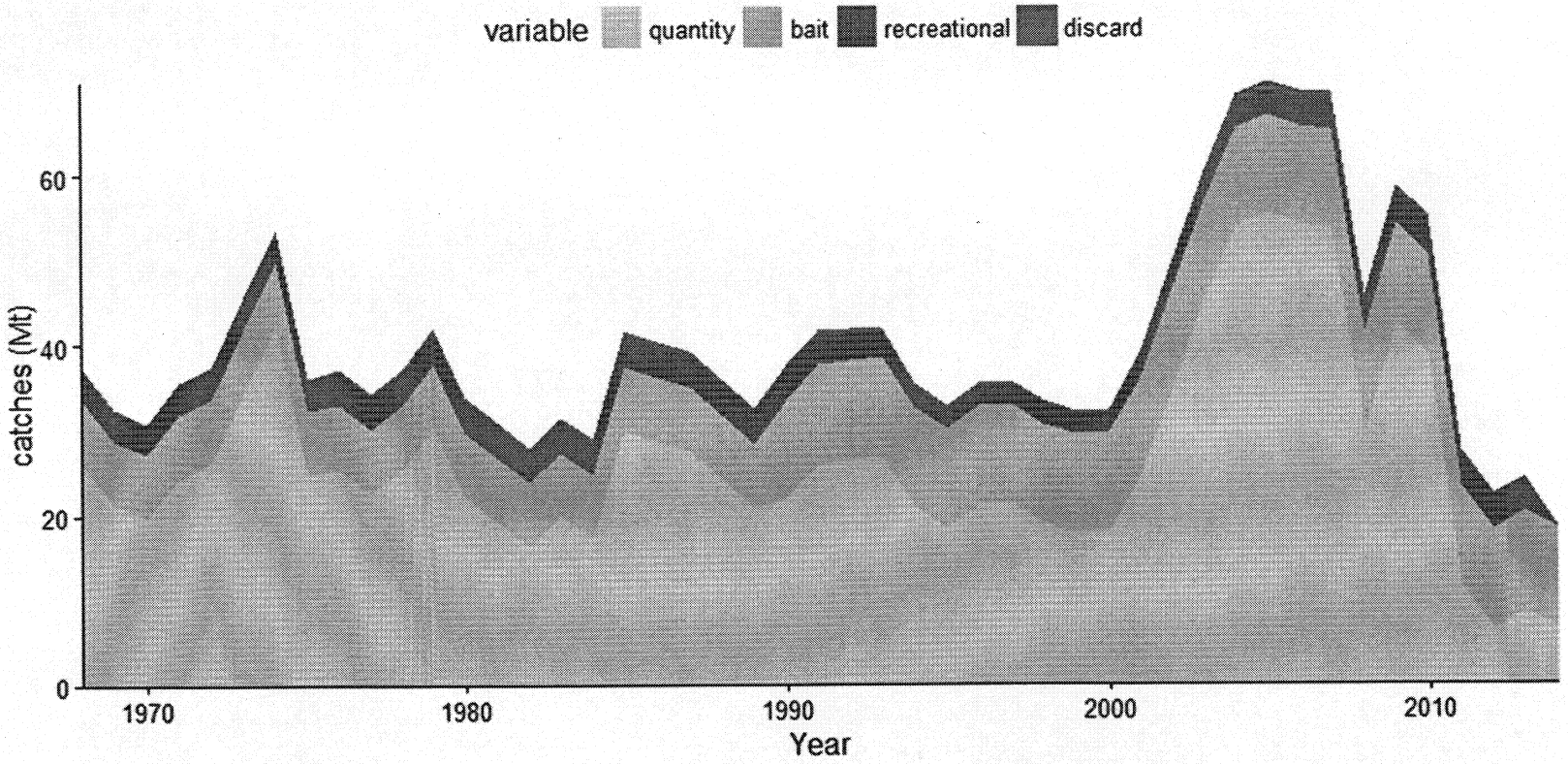


BUT:

- Does not include quebec
- Only licensed anglers
- If semi-commercial: not honest about it

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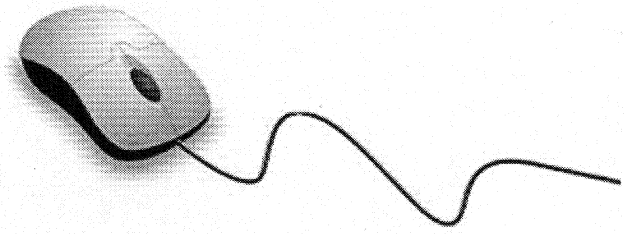




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Part 2

ONLINE SURVEY



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Why?

* No information last years
* Confirm previous findings

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Spreading

* 3453 mails (QC, NB, NS,PEI)
  (I had 3753 adresses, many were « undelivered » or « not appropriate »)
* Three facebook groups
* Radio IM
* Forums
* NovaNews

Input sought for mackerel research



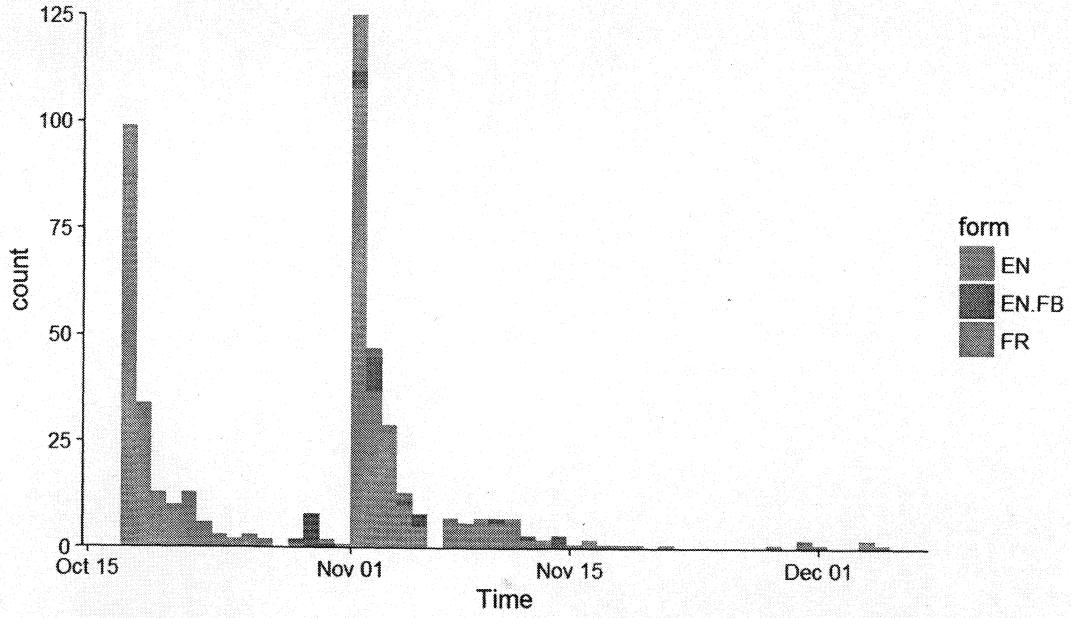
Canada Revenue Agency / Agence du revenu du Canada
Information Act / Document divulgué en vertu
de la Loi sur l'accès à l'information

Answers

17/10/2016 - 04/12/2016:

476 forms with at least one valuable answer (7% FB)

English 89%, French 11%



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Survey power?

In comparison:

1) nr licenses 2014 (DFO stats): 8082

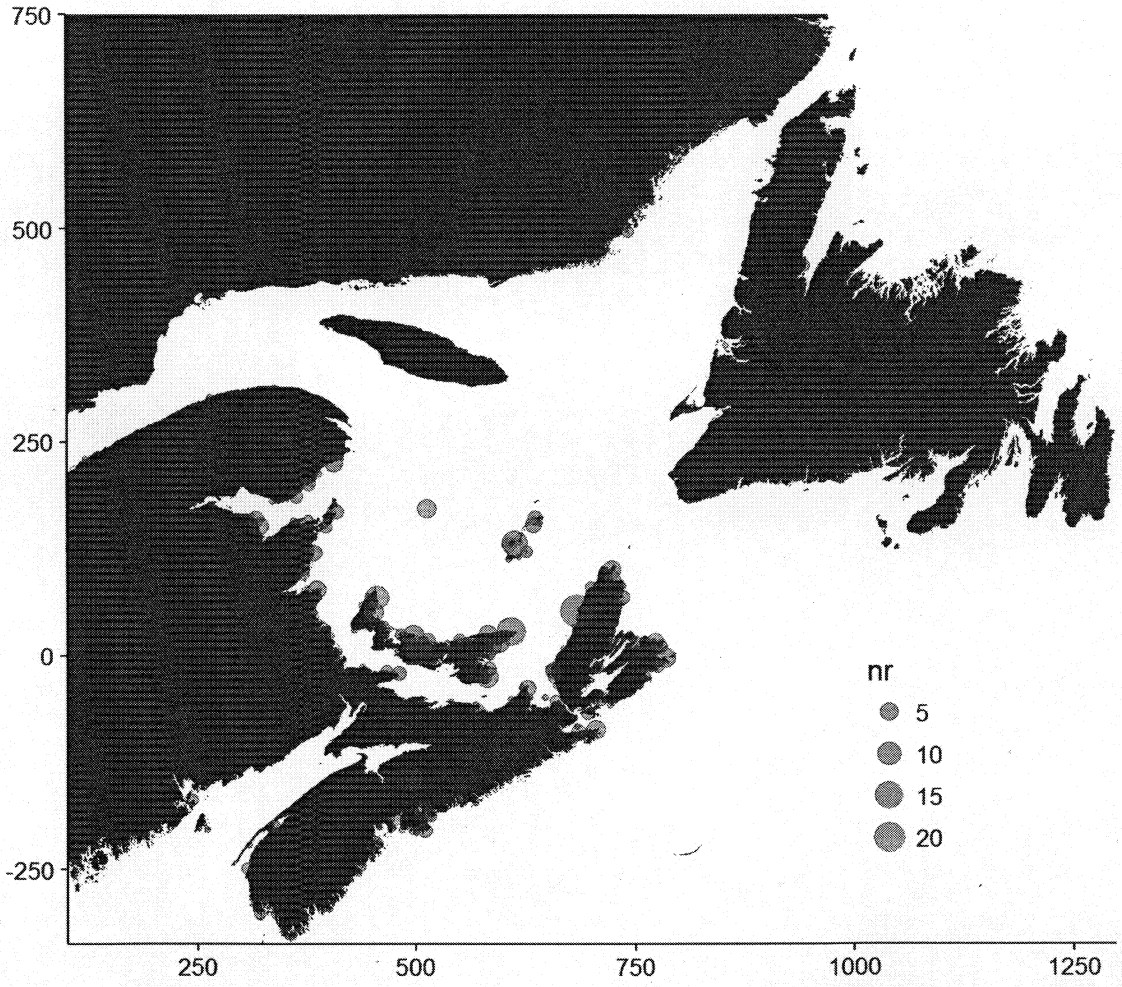
SPECIES	NOVA SCOTIA		NEW BRUNSWICK		P.E.I. GULF	QUEBEC	NEWFOUNDLAND	TOTAL ATLANTIC
	MARITIMES	GULF	MARITIMES	GULF				
MACKEREL	1,909	655	75	1,112	1,258	808	2,265	8,082

=> 390 answers were from licensed fishers = AT LEAST 5%

2) Catch 2016: ~8000t (TAC)

=> declared catch survey participants: 1536t = 19%

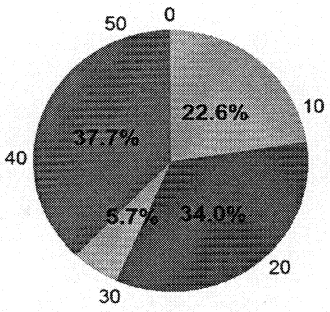
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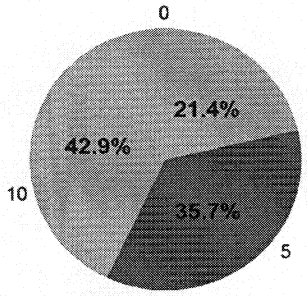
NB

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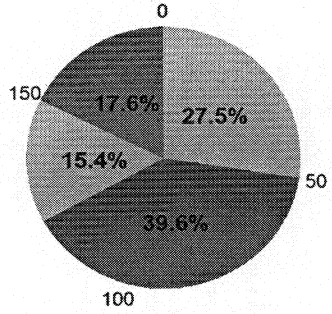
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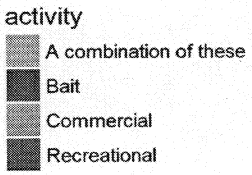
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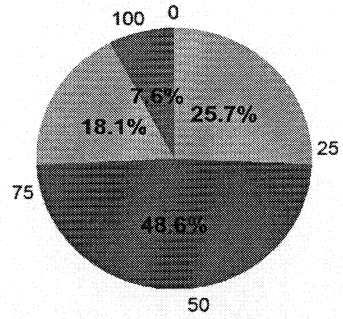
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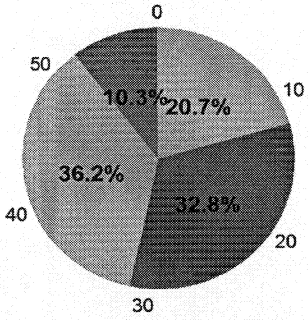
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N=105



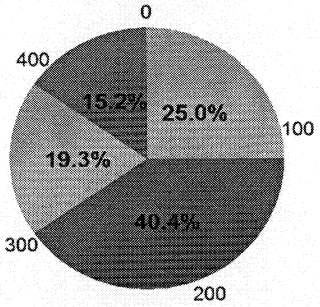
QC

N=58

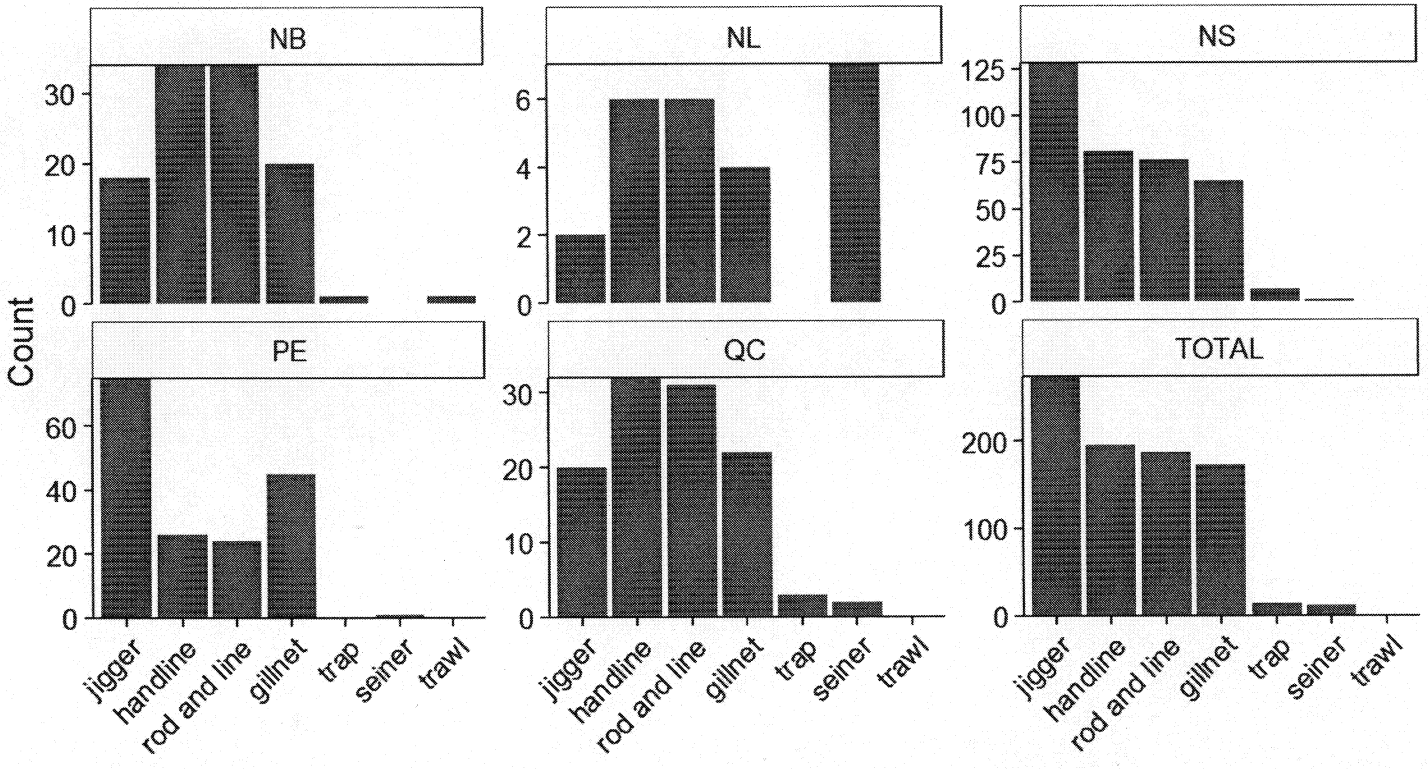


TOTAL

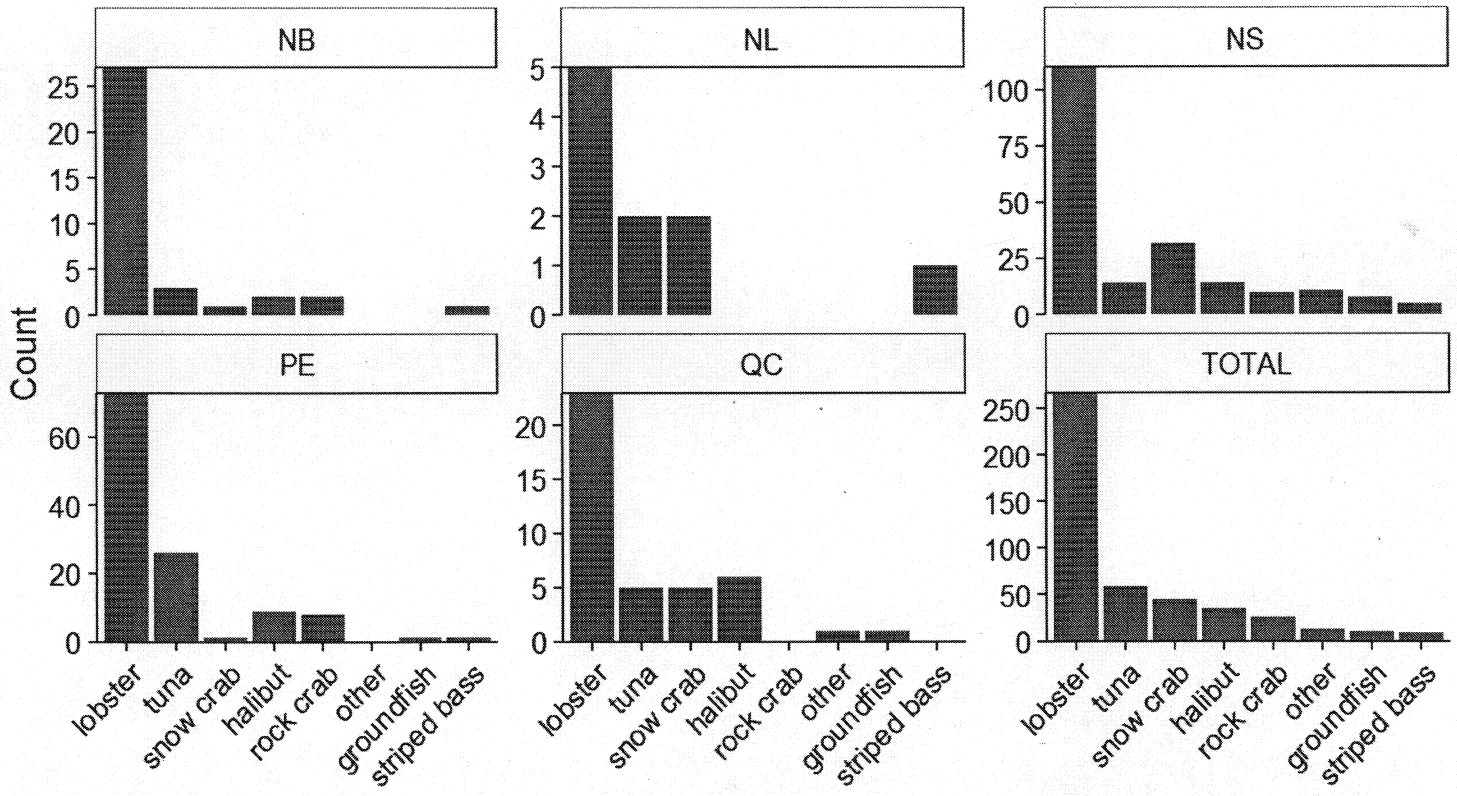
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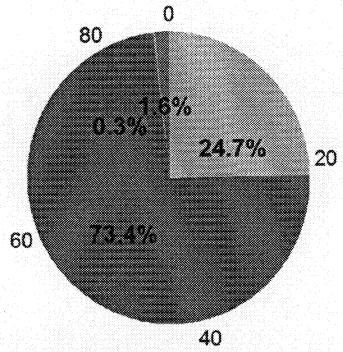
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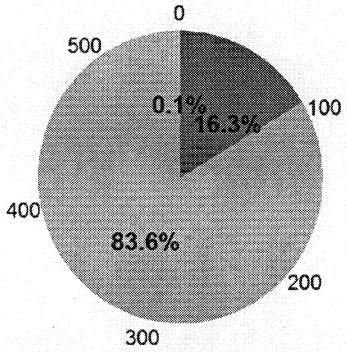
NB

87t (N=53)



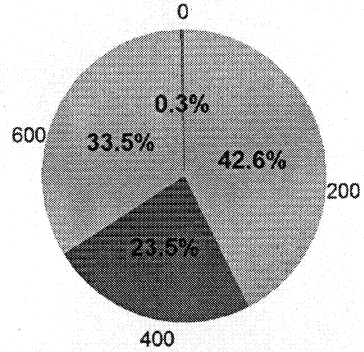
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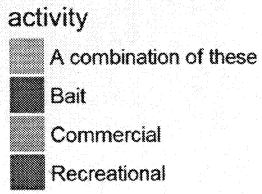
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NS

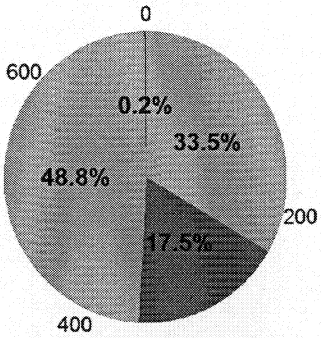
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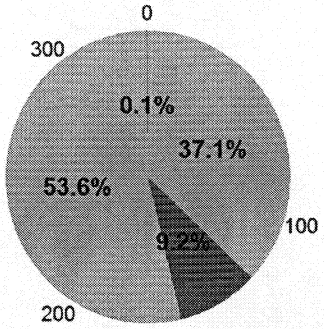
PE

696t (N=105)



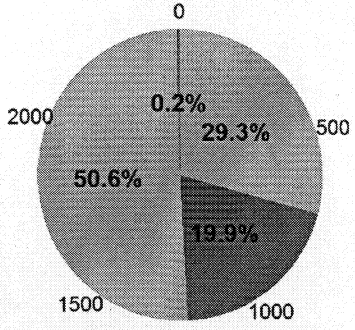
QC

336t (N=58)



TOTAL

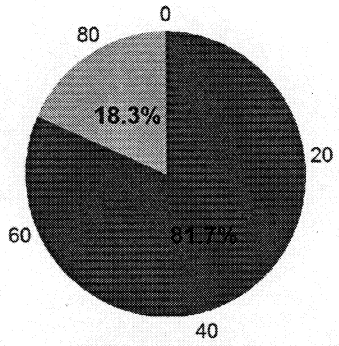
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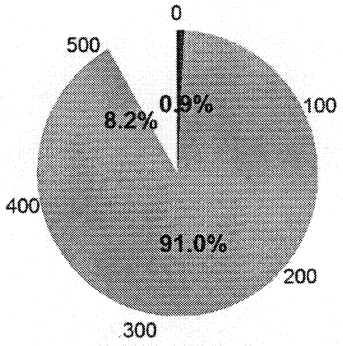
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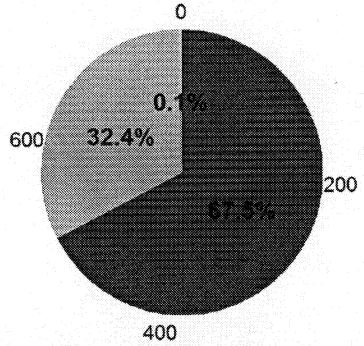
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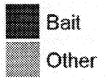
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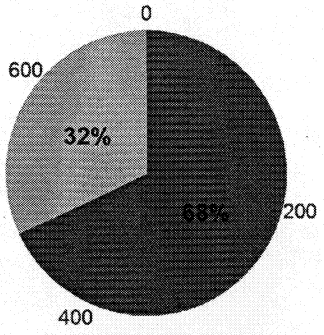
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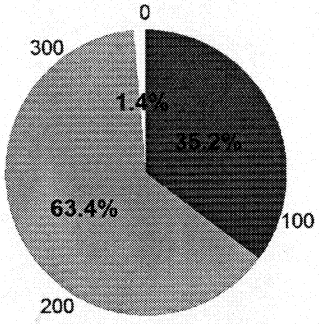
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696t (N=105)



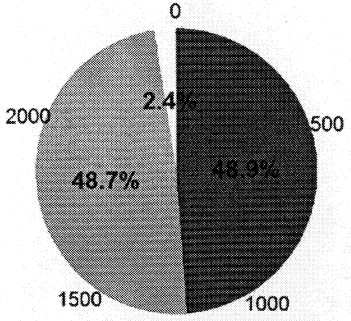
QC

336t (N=61)



TOTAL

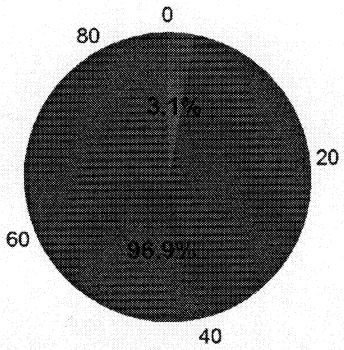
2477t (N=468)



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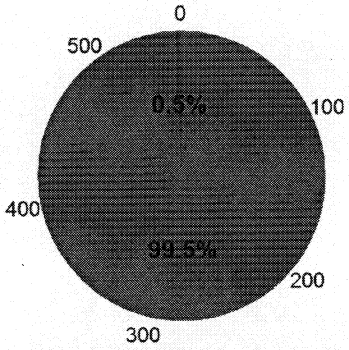
NB

87t (N=51)



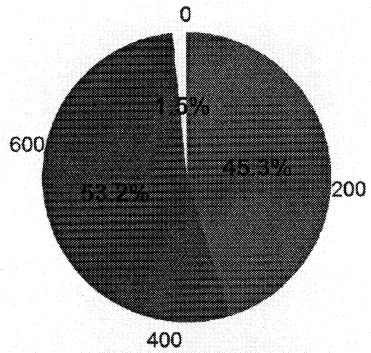
NL

556t (N=11)



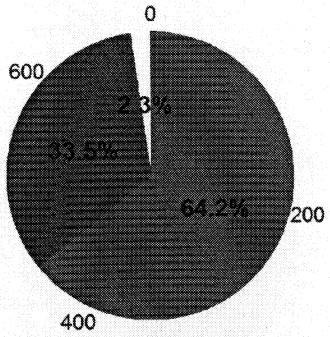
NS

765t (N=183)



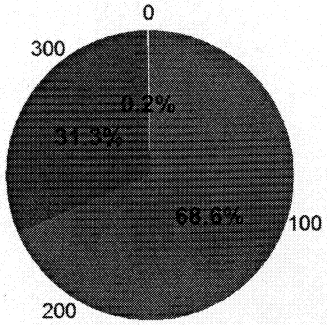
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696t (N=106)



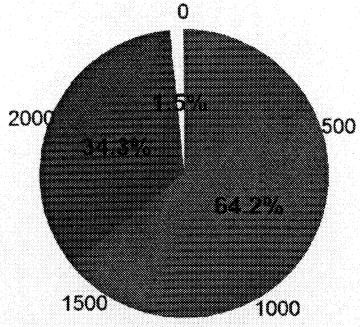
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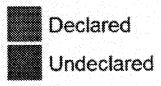
336t (N=56)



TOTAL

2477t (N=430)





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Conclusion

* Real need for an adapted model
* Online survey ~ literature
* Enough information to inform model choices

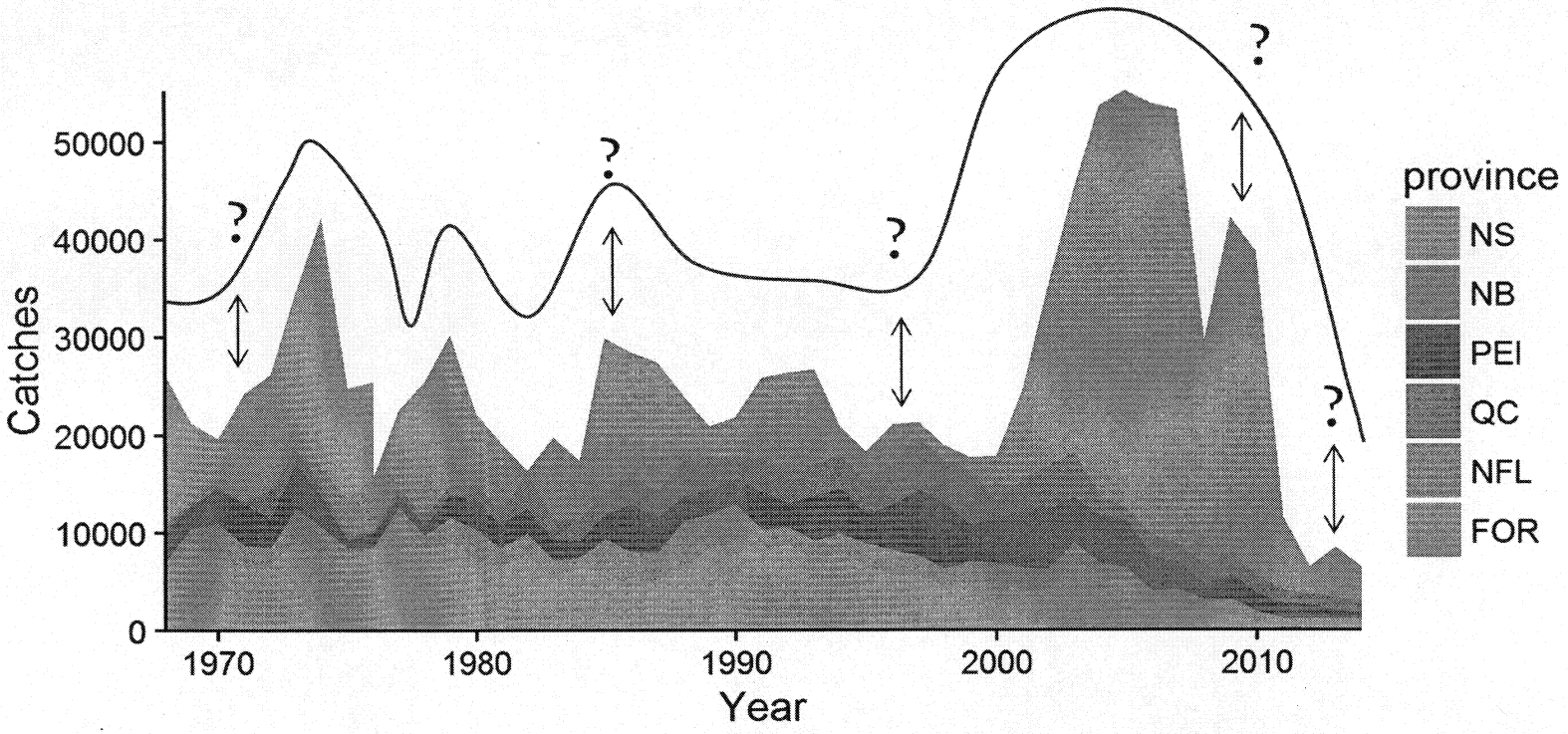
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Structure du modèle de prises-à-l'âge

Structure of catch-at-age model

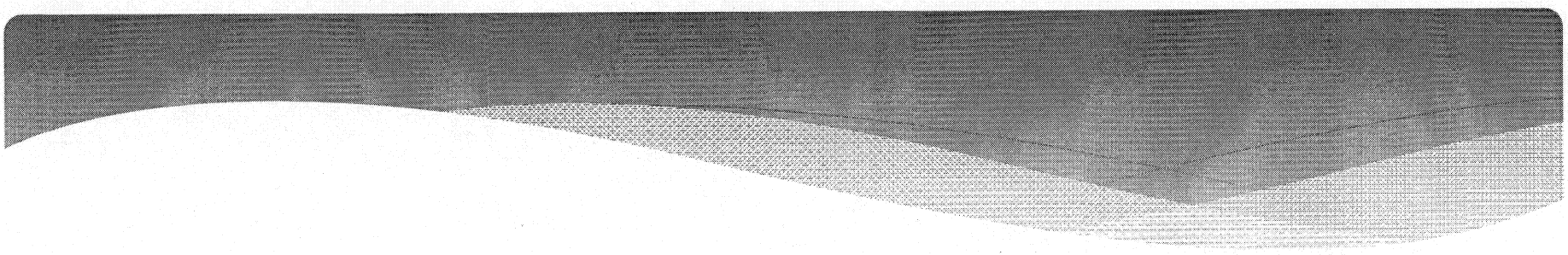
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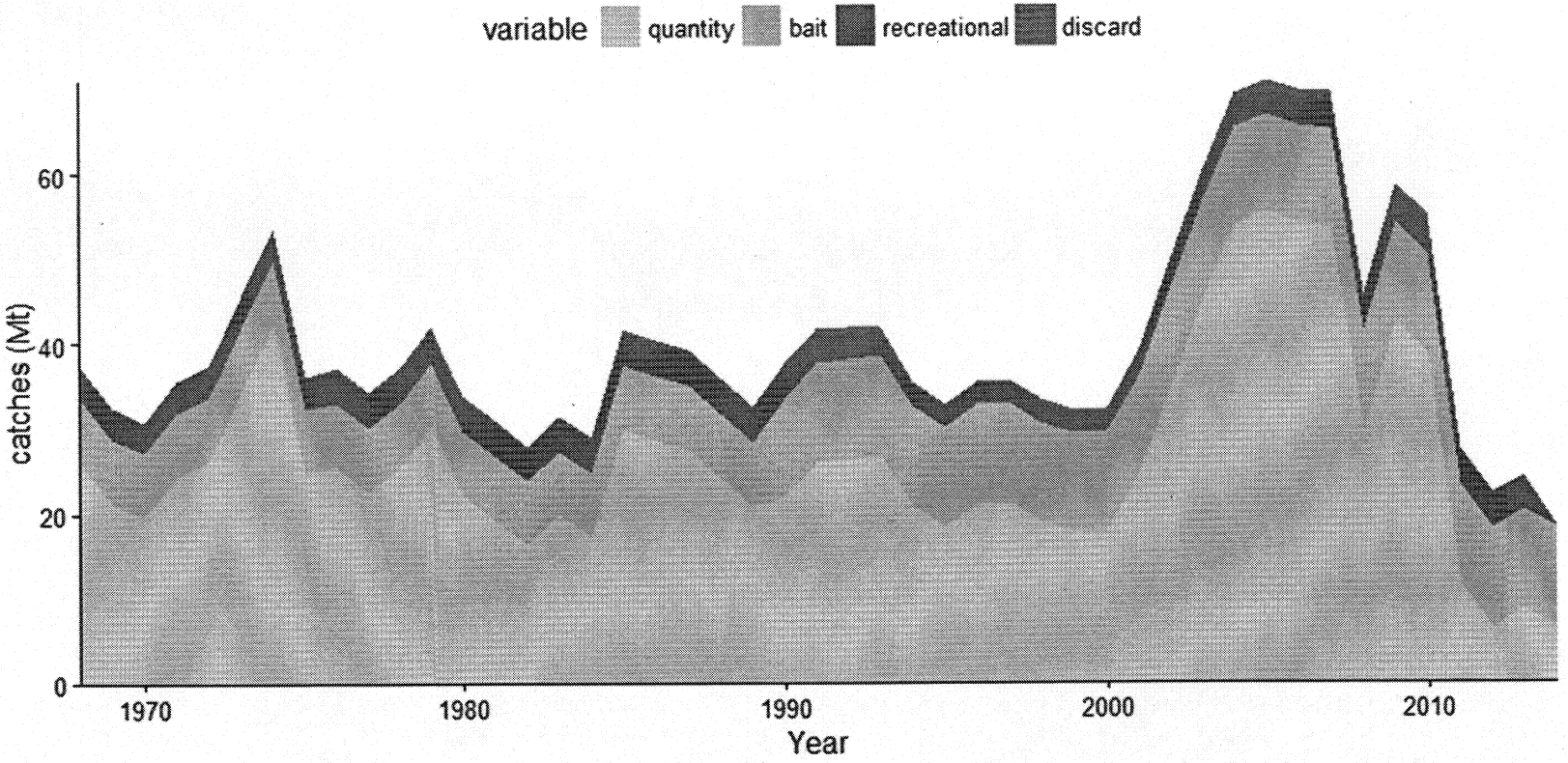
A censored catch model



000207

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A censored catch model

2005 **Censored catch data in fisheries stock assessment**

T. R. Hammond and V. M. Trenkel

2010 **Detecting and correcting underreported catches in fish stock assessment: trial of a new method**

Nicolas Bousquet, Noel Cadigan, Thierry Duchesne, and Louis-Paul Rivest

2016 A state-space stock assessment model for northern cod, including under-reported catches and variable natural mortality rates[1]

Noel G. Cadigan

29

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Framework

TMB (Template Model Builder)

* Based on ADMB
* Write model in c++
* In R:
  * TMB calculates the objective function
  * Optimisation with R function (optim, nlminb)
  * Get standard deviation parameters

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To know

* All observation equations are on a log scale

* process and observation errors:
  normal distributed unless mentioned otherwise.

* random effects:
  * annual fishing mortality (F_y)
  * abundance ($N_{a,y}$)
    $\Rightarrow$as in the model of Nielsen and Berg (2014)

* Age 1 = recruitment

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General structure

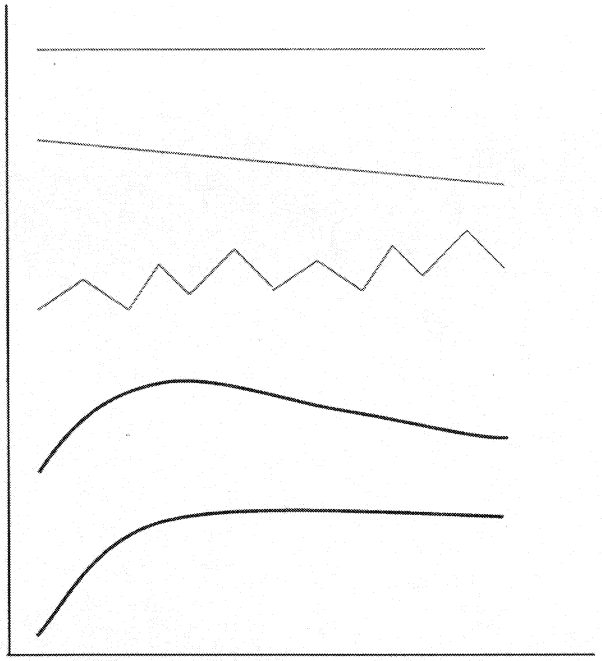
$$N_{a,y} = \begin{cases} f\left(SSB_{y-1}, E_{y-1}\right), & a = 1 \\ N_{a-1,y-1}\exp\left(-Z_{a-1,y-1} + \delta_{a,y}\right), & a = 2, \ldots, A\text{-}1 \\ N_{a-1,y-1}\exp\left(-Z_{a-1,y-1} + \delta_{a,y}\right) + N_{a,y-1}\exp\left(-Z_{a,y-1} + \delta_{a,y}\right), & a = A \end{cases}$$

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Recruitment options

Pattern:

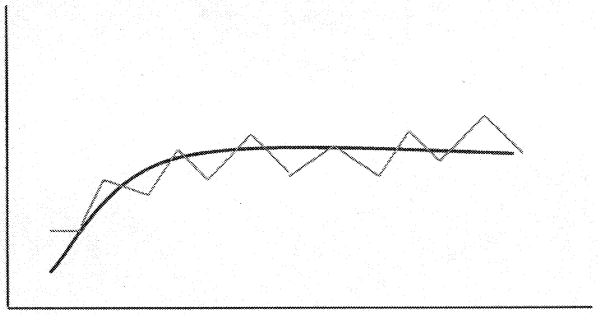
1. Centered around a mean
2. Centered around a linear model
3. Random walk
4. SR: Ricker
5. SR: Beverton-Holt



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Recruitment options

Pattern:



4. SR: Ricker
5. SR: Beverton-Holt

} + environmental effect(s)

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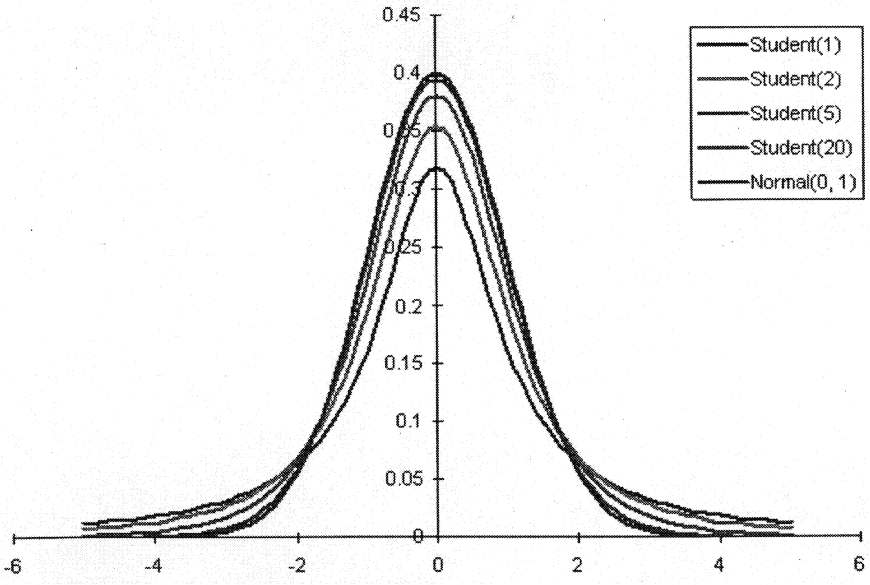
Recruitment options

Error distributions:

1. (log)normal

2. t-distribution (df=3)

3. Mixture of normal and t
   * « Robust »: normal + t (df=3)
   * « Ultrarobust»: normal +t (df=1)



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General structure

$$N_{a,y} = \begin{cases} f\left(SSB_{y-1}, E_{y-1}\right), & a = 1 \\ N_{a-1,y-1}\exp\left(-Z_{a-1,y-1} + \delta_{a,y}\right), & a = 2, \ldots, A\text{-}1 \\ N_{a-1,y-1}\exp\left(-Z_{a-1,y-1} + \delta_{a,y}\right) + N_{a,y-1}\exp\left(-Z_{a,y-1} + \delta_{a,y}\right), & a = A \end{cases}$$

Total mortality (Z) = Natural (M) + Fishing (F) mortality

↓ Fixed ↓ Parameter

0.2 F=Fy*Fa

↙ ↘

Random walk Identical for ages 6-10

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Process error

* Process error on N
  * Irregularities migration, M, etc.
  * Cadigan 2016: lag 1 autoregressive process error operating over year and age

N00	**N01**	**N02**				
N10	N11	N12				
N20	N21	N22				

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Survey index

* *Survey index:*

$$I_y = \sum_{y=1}^{Y} qN_{a,y}exp(-Z_{a,y}t_s)Weight_{a,y}PropMature_{a,y}$$

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Catch

* Catch at age/year (Baranov equation)

$$C_{a,y}=N_{a,y}\frac{F_{a,y}}{Z_{a,y}}\left[1-\exp\left(-Z_{a,y}\right)\right]$$

- Total annual catch:
  (un)censored catch
- Catch-at-age
  Continuation-ratio logit approach

} Cadigan (2016)

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Catch

Catch-at-age proportions:

Continuation-ratio logit approach
=> ordinal ordered response

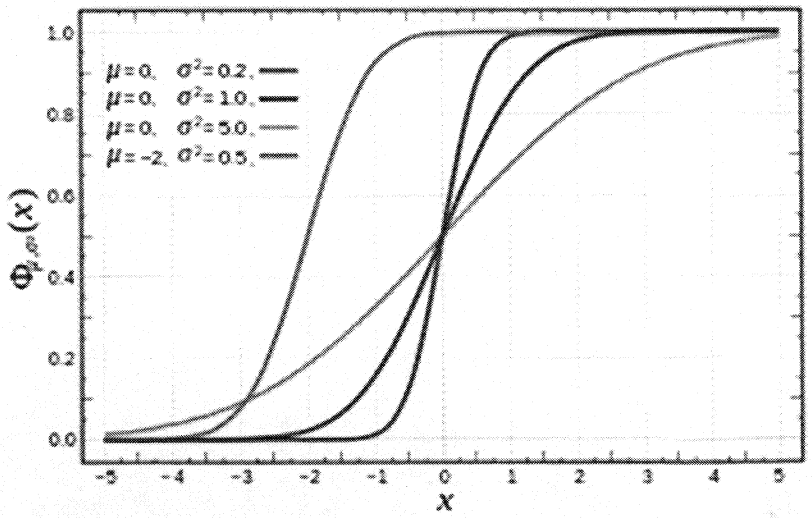
different σ^2_{crl} for different ages:
σ^2_{crl-A} for a=1,
σ^2_{crl-B} for a=2, 8 and 9
σ^2_{crl-C} for 1<a<8

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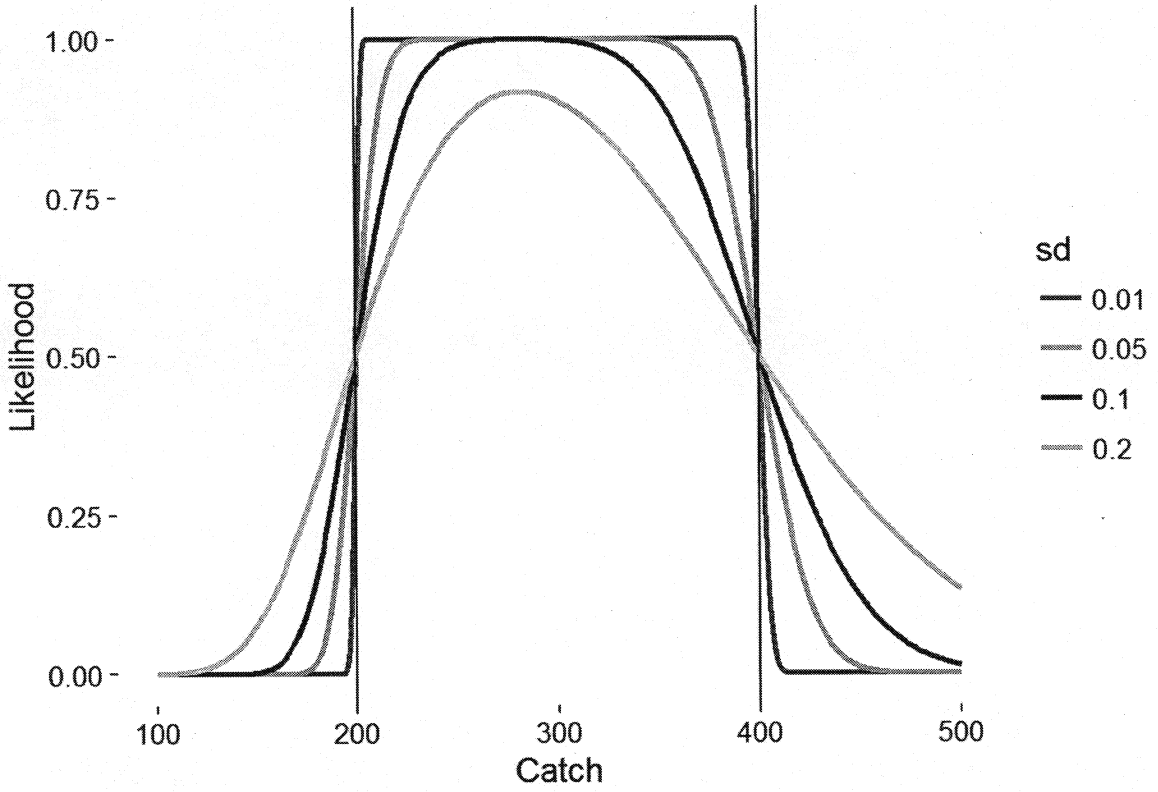
A censored catch model

$$l(C_{o1}, \ldots, C_{oY} \vee \theta) = \sum_{y=1}^{Y} log\left\{\phi_N\left[\frac{log(U_y/C_y)}{\sigma_C}\right] - \phi_N\left[\frac{log(C_{oy}/C_y)}{\sigma_C}\right]\right\}$$

- ϕ_N: cumulative distribution function for a N(0,1) random variable
- U_y: Upper limit
- C_{oy}: lower limit (observed catches)
- σ_C: measurement error



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Framework

* Censoring the total catch

  2 stages:

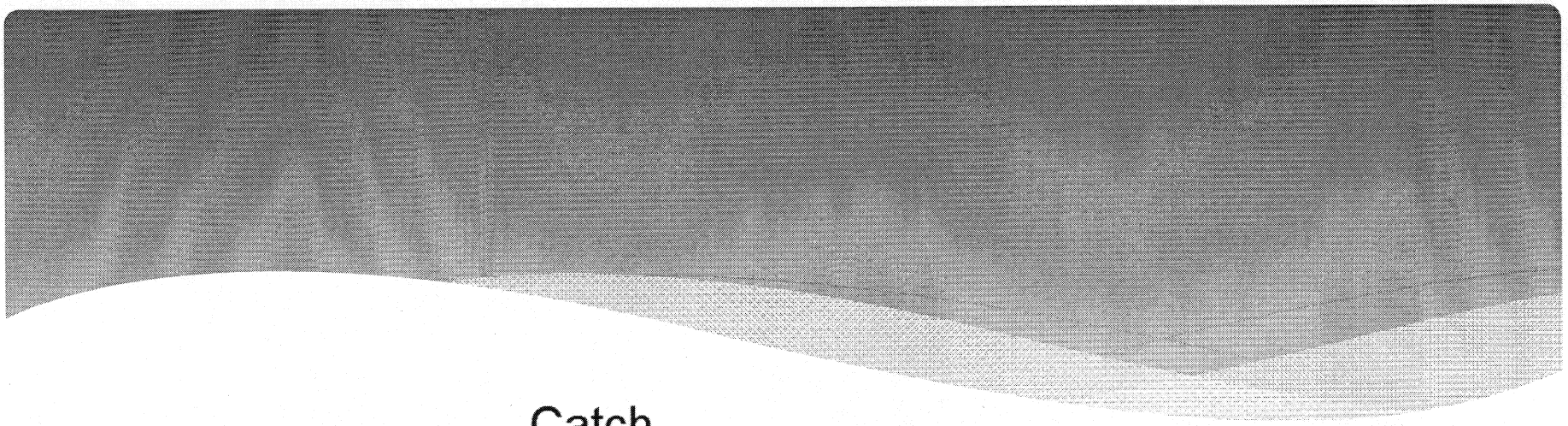
  1) match to "mean" catches using uncensored state

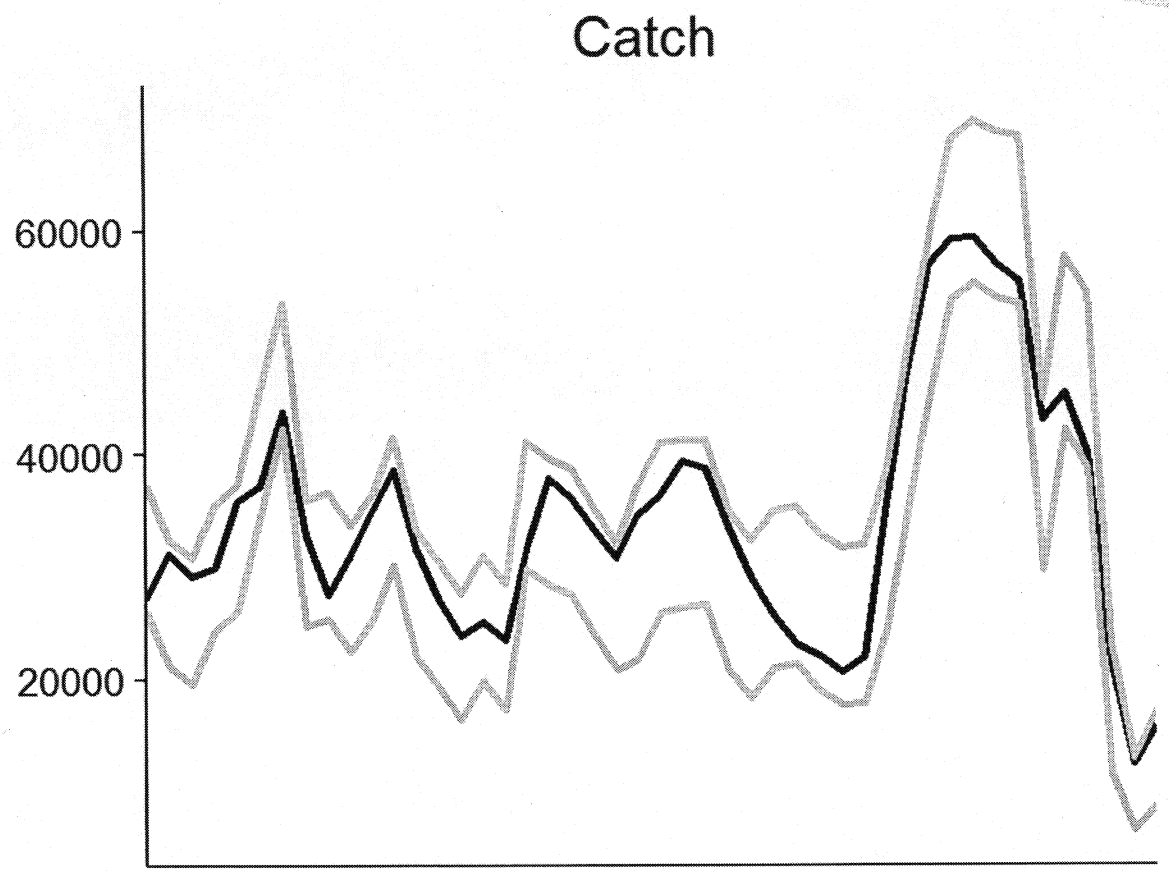
     => update initial parameter values

  2) censored catches

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Reference points

Able to estimate common reference points

* Based on stock-recruit
  * **SSBmsy, Fmsy**
* Not based on stock-recruit
  * Yield per recruit
    * **Fmax:** F for which YPR is maximal
    * **F1.0:** F were marginal gain in yield is 10% of F=0
  * Spawners-per-recruit
    * F were SPR_F is x% if $SPR_{F=0}$ (**F30%, F40%**)
  * Sissenwine and Shepherd (1987)
    * Based on SR data: fishing mortality rate that produces a replacement line with a slope that equals the average survival ratio.
    * **Fmed:**median survival ratio
    * **Fhigh:**F were recruitment sufficient to offset F in nine years out of ten
    * **Flow:** F were recruitment sufficient to offset F in one year out of ten
  * Recovery based
    * Lowest biomass from which recovery observed (recovery being 20 or 40% of highest biomass)
    * **SSBrec20, SSBrec40**

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Questions?



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EXTRAS

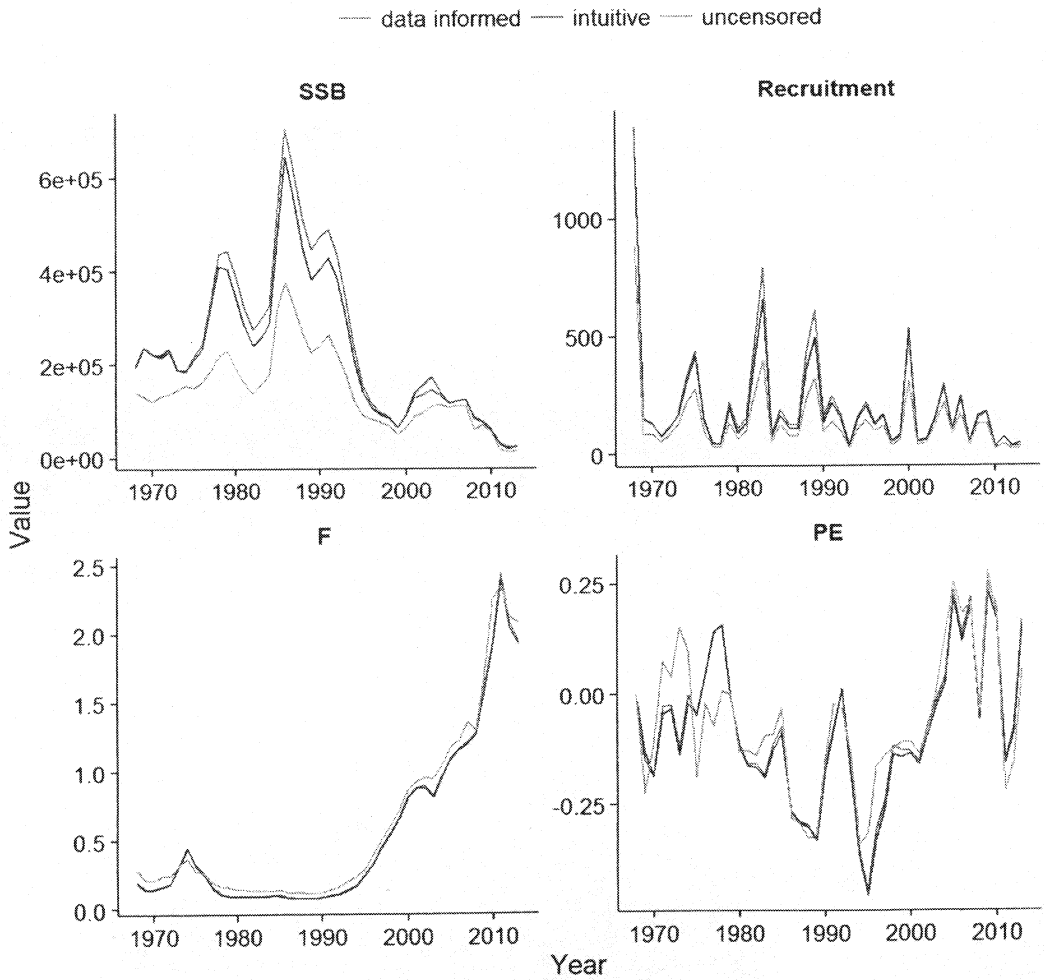
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CRLtransform

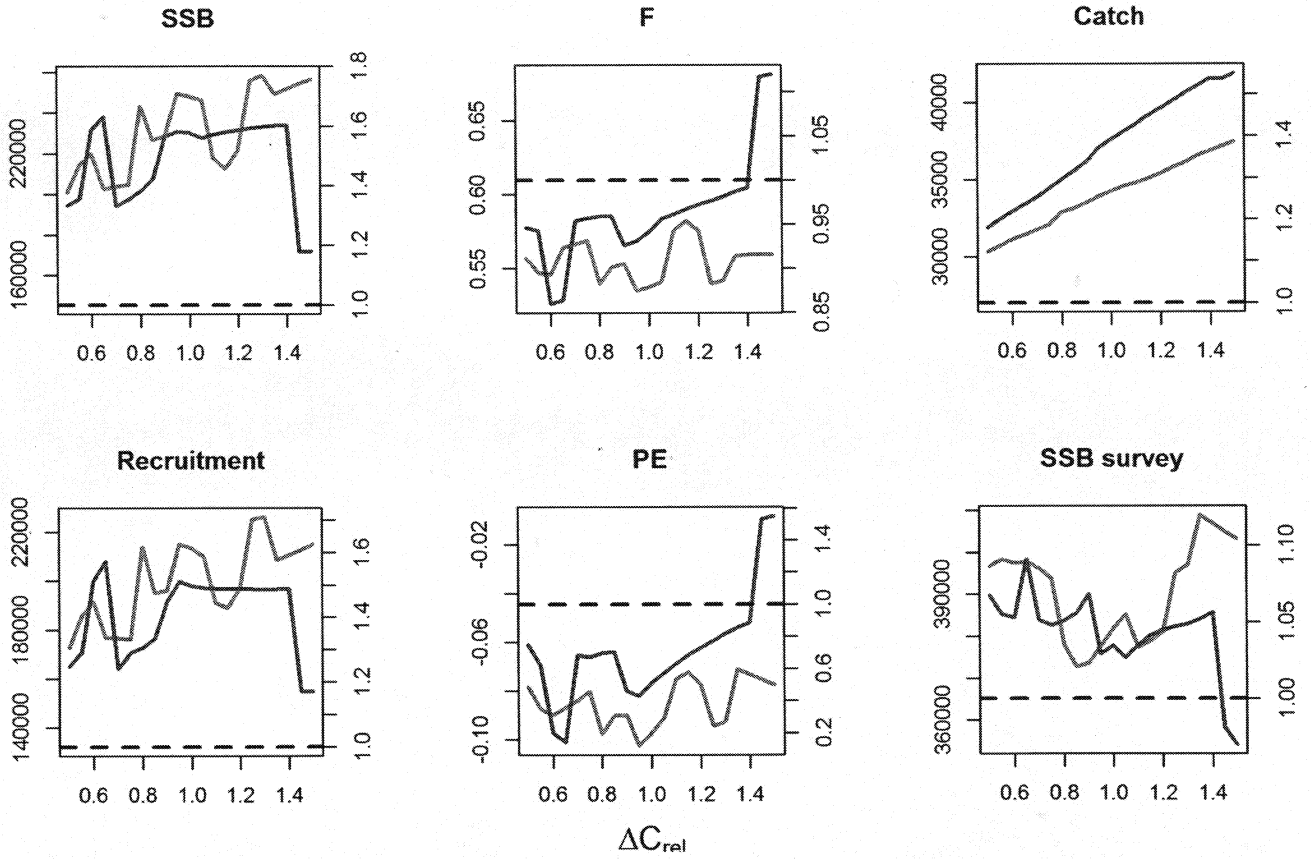
```
crlTransform=function(x){
 catch.num=t(x)
 na=ncol(catch.num) #number ages
 ny=nrow(catch.num) #number years
 ctot = apply(catch.num,1,sum) # vector total catch
 ctot.matrix = matrix(ctot,nrow=ny,ncol=na,byrow=FALSE) #matrix with for every year the total catch
 catnump = catch.num #copy original matrix
 ind = catch.num==0 #matrix with truefalse for zero values
 catnump[ind]=0.5   #in copy, replace zero's by 0.5
 ctotp = apply(catnump,1,sum) #vector total catch, zero's are 0.5
 ctotp.matrix = matrix(ctotp,nrow=ny,ncol=na,byrow=FALSE) #matrix with for every year total catch, assuming no zero's

 catnump[!ind] = catnump[!ind]*ctot.matrix[!ind]/ctotp.matrix[!ind] # just to rescale the matrix, so the+0.5 doesn't have effect on proportions
   # so far, all was to remove the zero's
 pnum = catnump/ctot.matrix # the matrix of proportions (sum to one)
 catch.prop = t(pnum) # back to original format (matrix of proportions (sum to one)) #propCpred in model
 cum_catch.prop = apply(catch.prop,2,cumsum) # cumulatif proportions, age 10=1
 cond_catch.prop = catch.prop[1:(na-1),] #ages in which interested (not 10;this is one)
 for(i in 2:(na-1)){cond_catch.prop[i,] = catch.prop[i,]/(1 - cum_catch.prop[i-1,])} # 1 - cum_catch.prop would be zero if oldest age included #
propCpred_cond in model
 crl = log(cond_catch.prop/(1-cond_catch.prop))
 return(crl)
}
```

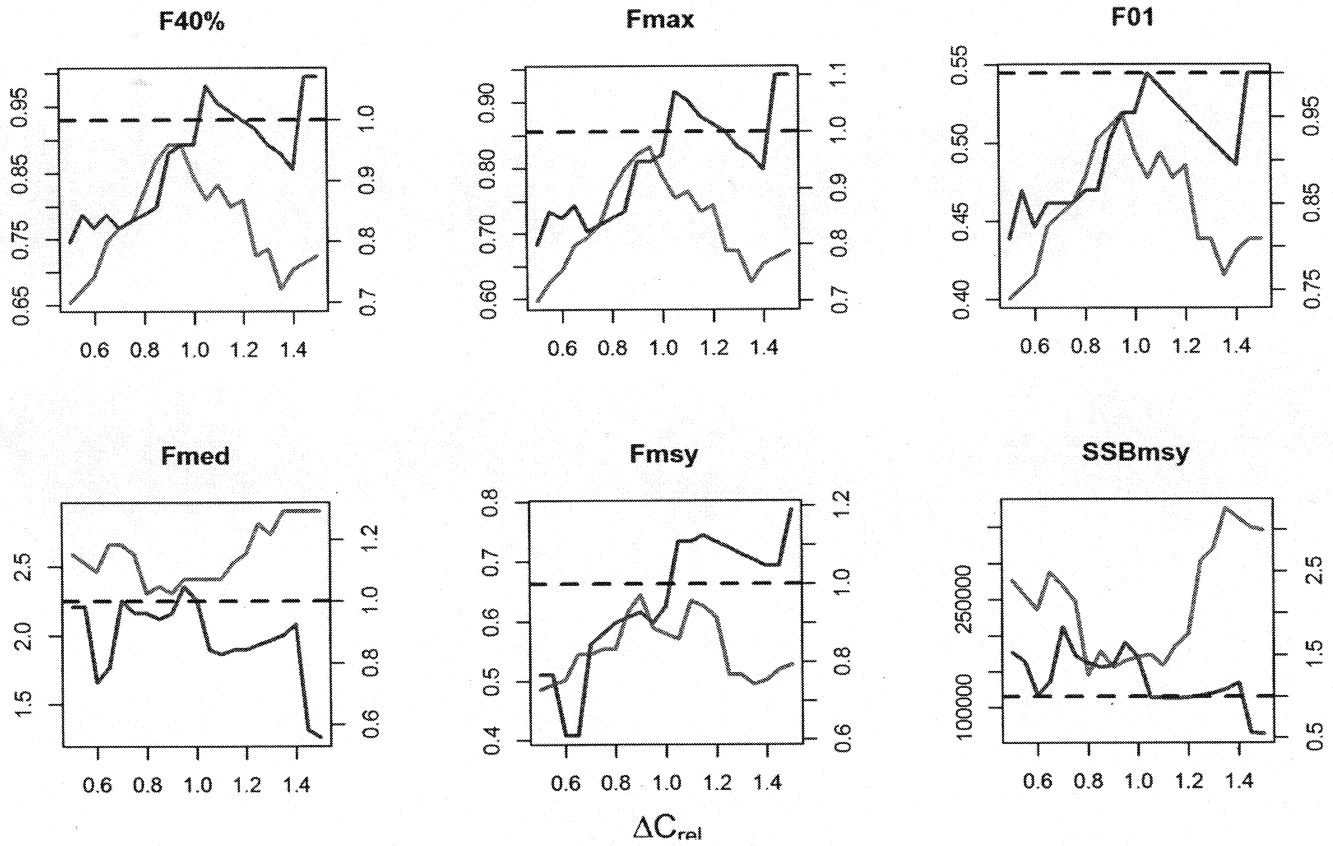
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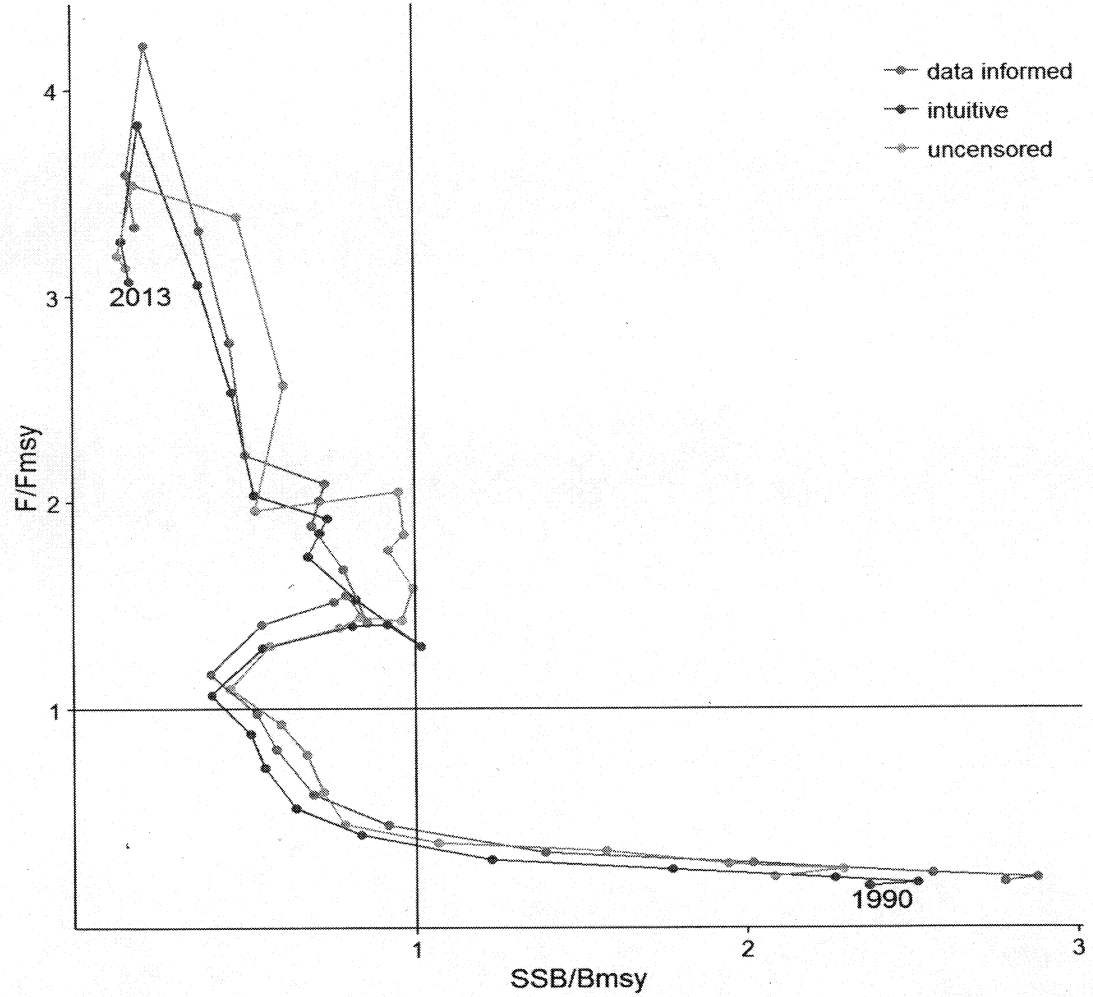
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Sensitivity…

* **Process error** is known to influence model performance

  → large PE responsible for main variability RPs (effect PE > mortality)

  →

* **Statistical errors** increase model sensitivity to input changes

PE /statistical error because:

- Constant M
- Survey index
- Unmodelled processes (e.g. migration)

Pages 234 to / à 258

are duplicates of

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pages 269 to / à 293

Page 259

is a duplicate of

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page 1310

Available online: http://www.dfo-mpo.gc.ca/csas-sccs/Schedule-Horraire/2017/01_18-20-fra.html
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Cadre de référence

Révision du cadre d'évaluation pour le maquereau bleu des sous-régions 3-4

Examen par des pairs régional – région du Québec

Du 18 au 20 janvier 2017
Mont-Joli (Québec)

Président : à confirmer

Contexte

Dans les provinces maritimes, à Terre-Neuve et au Québec (sous-régions 3 et 4 de l'OPANO), plus de 15 000 pêcheurs commerciaux pratiquent la pêche au maquereau bleu. Celle-ci se déroule généralement près des côtes à l'aide du filet maillant, de la turlutte, de la ligne à la main, de la senne et de la trappe. L'utilisation de ces engins de pêche varie selon la région et la période de l'année. Les débarquements canadiens de maquereau bleu sont sous-estimés puisque ce ne sont pas tous les livres de bord de la pêche d'appât qui sont remplis et qu'il y a des ventes directes provenant de cette pêche. De plus, les prises de la pêche récréative, qui se déroule au cours des mois d'été le long de la côte atlantique, ne sont pas rapportées, tout comme les rejets de petits maquereaux. Ce problème des captures non comptabilisées a été soulevé à de nombreuses reprises au cours des évaluations précédentes. En attendant qu'un meilleur contrôle de la cueillette des données de pêche ne soit établi, il est possible de prendre en compte l'incertitude sur les captures manquantes au sein de modèles statistiques nouvellement développés.

L'abondance du maquereau bleu a été évaluée jusqu'à maintenant par une analyse séquentielle de populations (ASP). Cette ASP est calibrée par un indice d'abondance calculé à partir des données provenant d'un relevé des oeufs qui se déroule annuellement dans le sud du golfe du Saint-Laurent. La dernière évaluation du maquereau des sous-régions 3 et 4 remonte à l'hiver 2014. Le logiciel qui était utilisé pour l'ASP est devenu désuet et ne fonctionne plus sur les systèmes récents. De plus, il ne pouvait prendre en compte les captures manquantes.

La Direction de la gestion des pêches et de l'aquaculture a sollicité un avis scientifique du maquereau bleu des eaux canadiennes pour les saisons de pêche 2017 et 2018. En prévision de cette évaluation, il est important de développer un nouveau modèle de dynamique de population afin d'estimer l'état de la ressource. Ce modèle statistique des prises selon l'âge devra être capable d'intégrer pleinement les différentes sources d'incertitude, y compris l'estimation des captures manquantes, et permettre le calcul de points de référence robustes. Le but est d'effectuer la revue de ce nouveau cadre d'évaluation pour le maquereau bleu des sous-régions 3-4.

Objectifs

- Présenter les résultats d'un sondage en ligne effectué auprès des pêcheurs et d'une analyse des besoins en appâts afin d'estimer une limite supérieure pour les captures non-déclarées de la pêche pour l'appât;
- Sélectionner les modèles pour évaluer l'état du stock et la productivité du maquereau des sous-régions 3-4, plus précisément la taille du stock, la composition des captures à l'âge et la mortalité par pêche :
    - Déterminer la méthodologie qui permet d'estimer les captures manquantes;
    - Déterminer la performance des modèles (avec et sans la capture manquante) au moyen de diagnostics et d'analyses de sensibilité (ajustement aux données et résidus, analyses rétrospectives, sensibilité aux principaux paramètres de productivité du stock);
- Déterminer la méthodologie permettant de caractériser la productivité des stocks, notamment les points de référence de la mortalité par pêche et de la biomasse du stock reproducteur, ainsi que les états passés, actuels et prévus relativement à ces points.

Pages 261 to / à 263

are public-denied pursuant to section

est public-refusé en vertu de l'article

68(a)

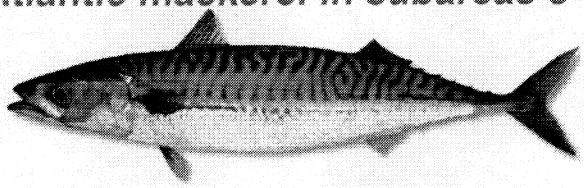
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Pêches et Océans Canada | Fisheries and Oceans Canada

Révision du cadre d'évaluation pour le maquereau bleu des sous-régions 3-4/ *Review of the assessment framework for Atlantic mackerel in subareas 3-4*



18-20 janvier / January 18-20, 2017 Mont-Joli

Canada

Pêches et Océans Canada | Fisheries and Oceans Canada

Objectifs / Objectives

- Revue du cadre d'évaluation pour le maquereau bleu des sous-régions 3-4
- Pas ici pour débattre des problèmes de gestion ni d'allocation de la ressource
- Revue des sciences, pas une consultation

- *Review of the Assessment Framework for Atlantic mackerel in subareas 3 and 4*
- *Not here to discuss issues of management or resource allocation*
- *Science review, not a consultation*

Canada

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Pêches et Océans Canada | Fisheries and Oceans Canada

Objectifs / Objectives

- Identifier des questions et/ou des enjeux qui n'ont pas été traités dans les analyses présentées, incluant
  - le déroulement de la pêche
  - les aspects mathématiques et statistiques
  - des faiblesses potentielles dans les données et/ou les méthodes utilisées pour les analyses
- Contribuer à trouver des solutions à ces problèmes.

- *Identify questions and / or issues that were not addressed in the analysis presented, including*
  - *The last fishing season*
  - *mathematics and statistics*
  - *potential weaknesses in the data and / or methods used for analysis*
- *Contribute to finding solutions to these problems.*

Canada

Pêches et Océans Canada | Fisheries and Oceans Canada

Fonctionnement de la réunion / Ground Rules

- Toutes les personnes présentes ont le même droit de se faire entendre
- On s'attend à ce que chaque personne participe et respecte le droit de l'autre à s'exprimer
- S'en tenir au cadre de référence et aux bonnes pratiques scientifiques
- Parler un à la fois, pas de discussion en parallèle

- *Everyone is expected to participate, have the right to be heard and respect the right of others to be heard*
- *Stick to the framework and good scientific practice*
- *One person speaks at a time – do not interrupt and no side-bar discussions*

Canada

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Pêches et Océans Canada | Fisheries and Oceans Canada

Fonctionnement de la réunion / Ground Rules

- Remettre en question les idées, non pas les personnes
- Demander des précisions si un point n'est pas clair
- Essayer d'avoir consensus, mais ça ne passe pas par le vote

- *Challenge ideas, not individuals*
- *Request clarification if a point is not clear*
- *Try to get consensus, but it does not go through the voting*

Canada

Pêches et Océans Canada | Fisheries and Oceans Canada

Consensus

Aux fins des réunions d'examen par des pairs du Secrétariat canadien de consultation scientifique du MPO, le terme « **consensus** » renvoie à une **absence d'opposition sur les conclusions et avis avancés d'après les données et les informations scientifiques** présentées et non d'après des considérations externes, comme les impacts potentiels de décisions futures.

*For the purpose of DFO Canadian Science Advisory Secretariat peer-review meetings, **consensus** means **an absence of opposition to the meeting conclusions and advice that are based on scientific data and information** and not on external considerations such as the potential impacts of future decisions.*

Canada

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Pêches et Océans Canada | Fisheries and Oceans Canada

Fonctionnement de la réunion / Ground Rules

- Mettre les cellulaires en mode vibration
- Prendre ses appels à l'extérieur de la salle de réunion
- Respecter le caractère confidentiel des conclusions tant qu'elles ne sont pas publiées officiellement

- *Put cell phones on vibrate*
- *Take calls outside the meeting room*
- *Respect the confidentiality of the results until they are officially published*

Canada

Pêches et Océans Canada | Fisheries and Oceans Canada

Horaire / Schedule

18 janvier / January 18		09:00 – 17:00
Pause santé / Break	10:15 – 10:30	14:45 – 15:00
Dîner / Lunch		12:00 – 13:00
19 janvier / January 19		09:00 – 17:00
Pause santé / Break	10:15 – 10:30	14:45 – 15:00
Dîner / Lunch		12:00 – 13:00
20 janvier / January 20		09:00 – 12:00
Pause santé / Break	10:15 – 10:30	

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Présentation des participants

Introduction of participants

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Révision du cadre d'évaluation pour le maquereau bleu des sous-régions 3-4

Thomas Doniol-Valcroze, Elisabeth Van Beveren,
Daniel Duplisea & Martin Castonguay

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Calendrier d'évaluation

- Dernière évaluation: 2014
- Évaluation de 2016 reportée à 2017
- Décembre 2016: revue des intrants (œufs)
- **Janvier 2017: revue cadre (modèle)**
- Mars 2017: évaluation de la ressource
  - Utilisation du nouveau modèle
  - Mise à jour des données 2014, 2015, 2016
    - Débarquements
    - Données biologiques
    - Relevé des œufs

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Maquereau bleu (Atlantique nord-ouest)

- Biologie
- Distribution et structure du stock
- Pêche
- Données scientifiques:
  - Relevé des œufs
  - Échantillonnage commercial
- Problématiques
- Approches précédentes

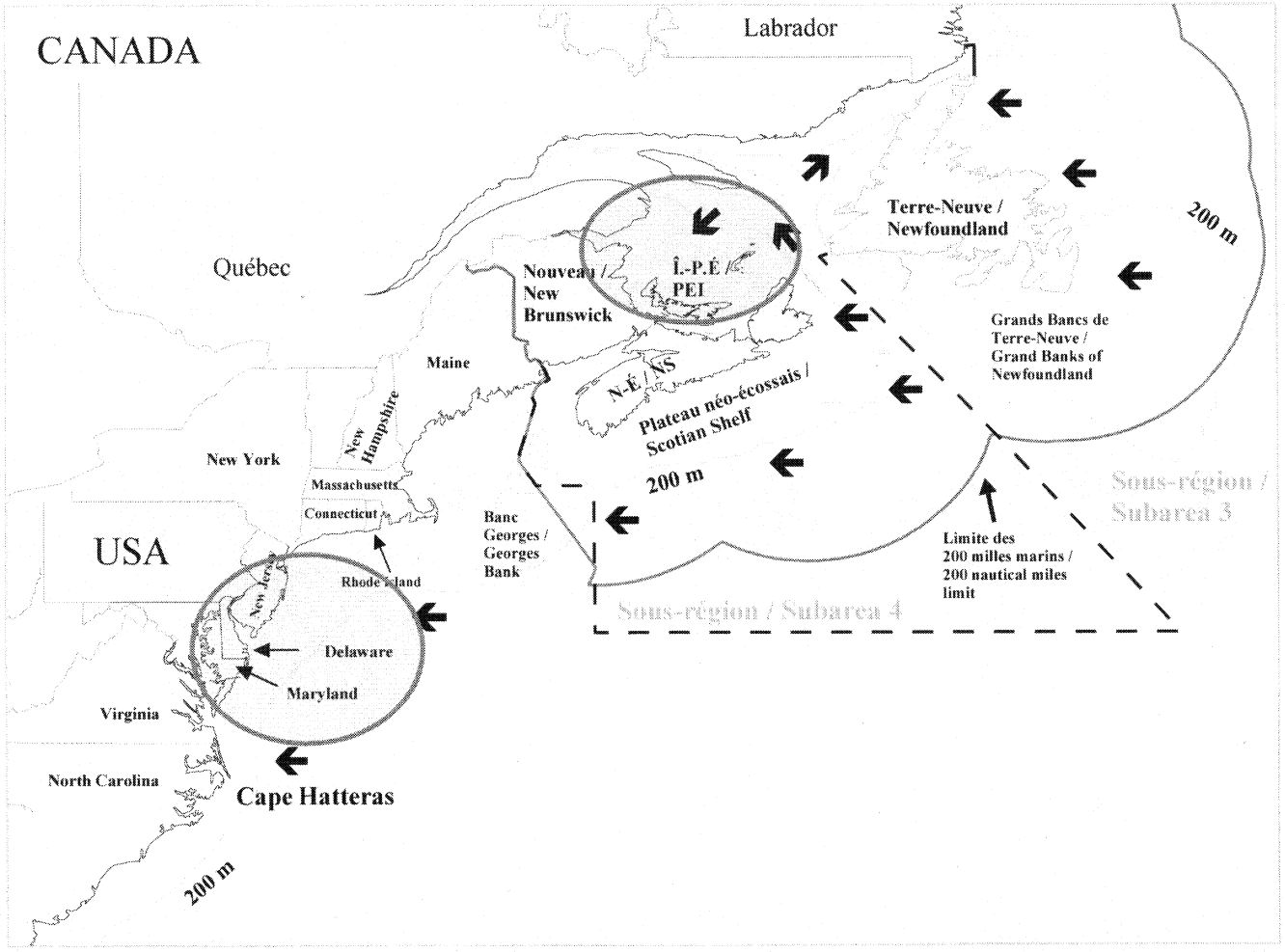
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Biologie

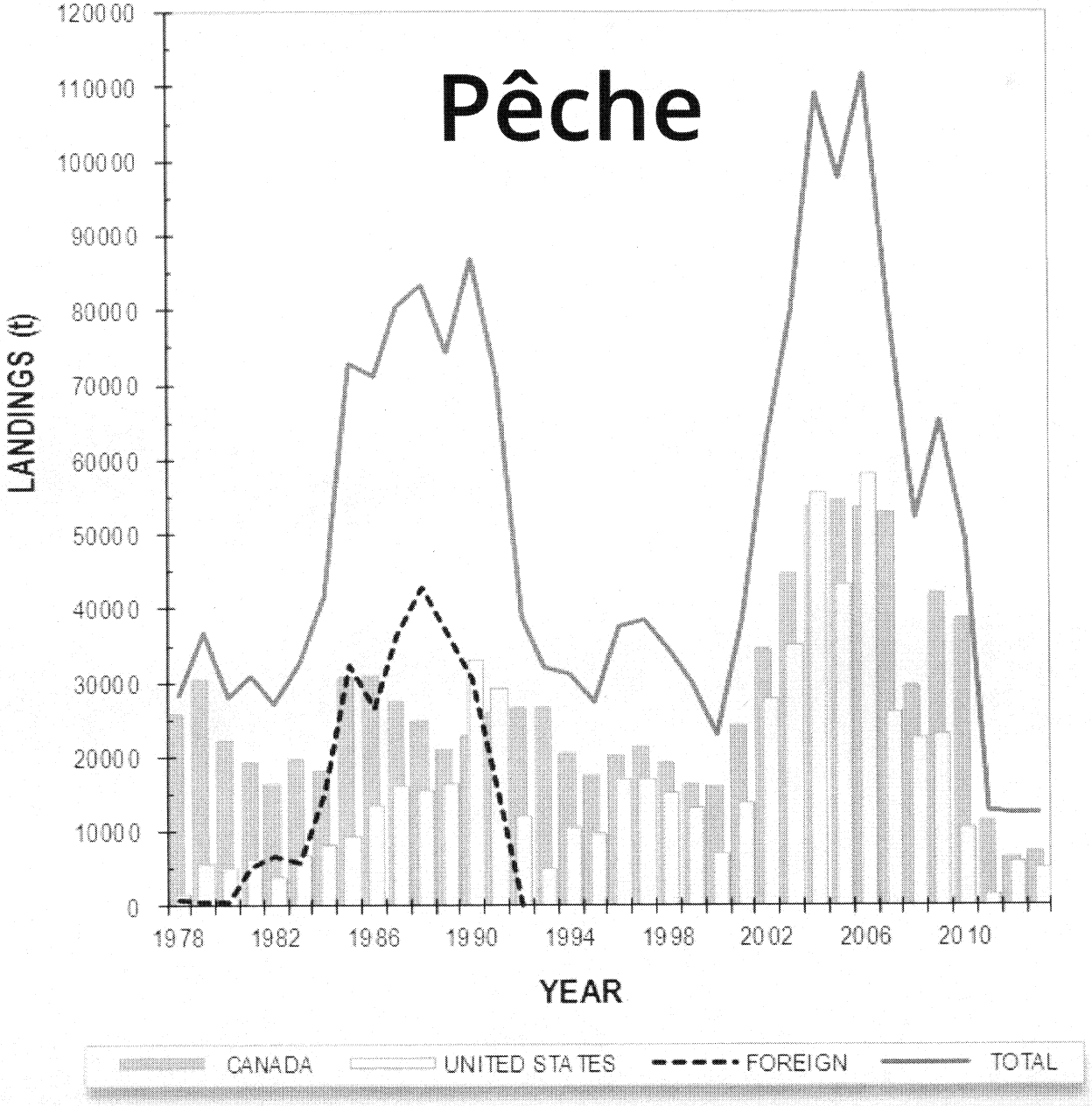
- Pélagique
- Migratrice
- 26 cm après 2 ans = maturité
- Plein recrutement ~3 ans
- « batch spawners » (juin)
- 2 composantes reproductrices
- 1 stock transfrontalier

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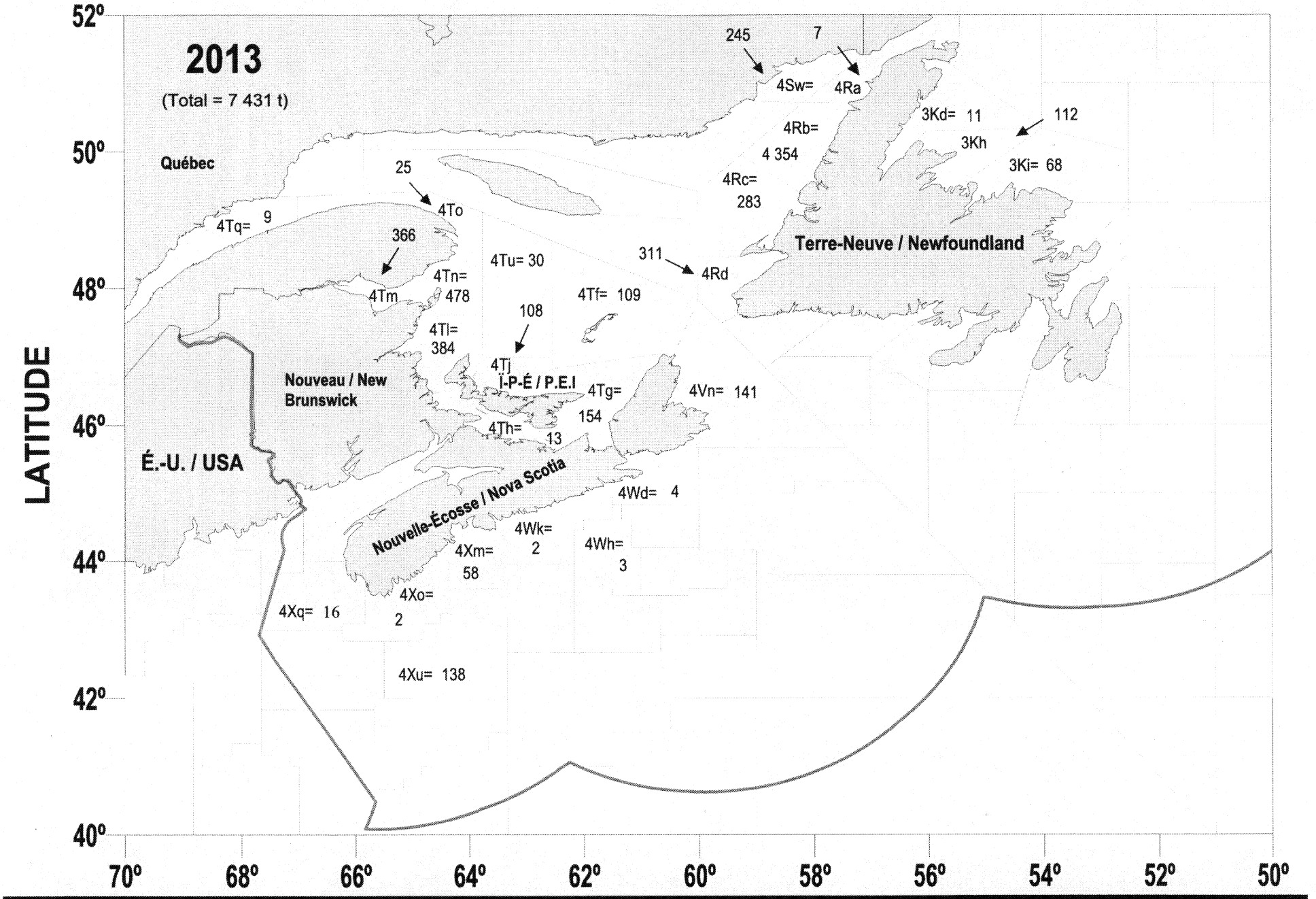
Distribution et migration



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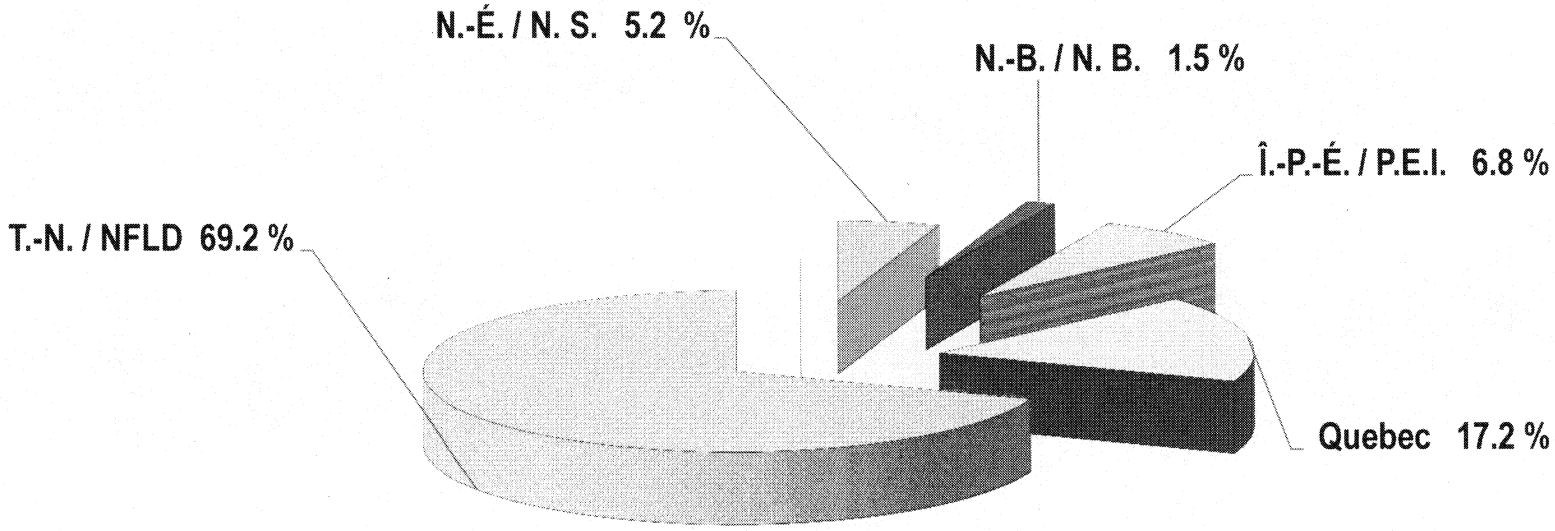


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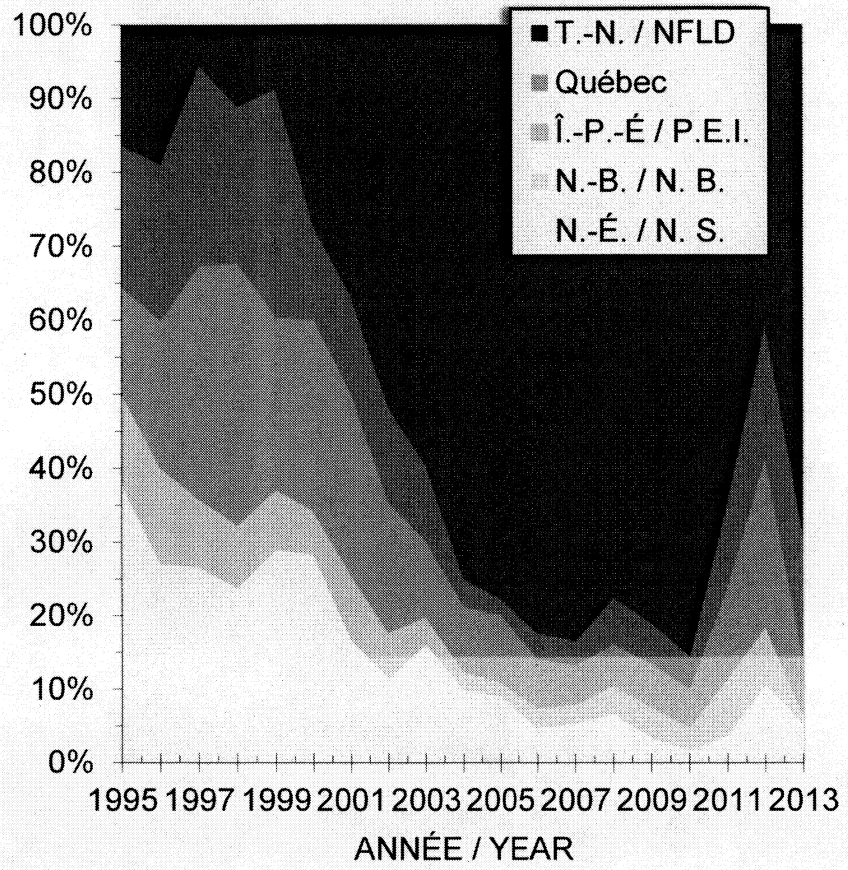
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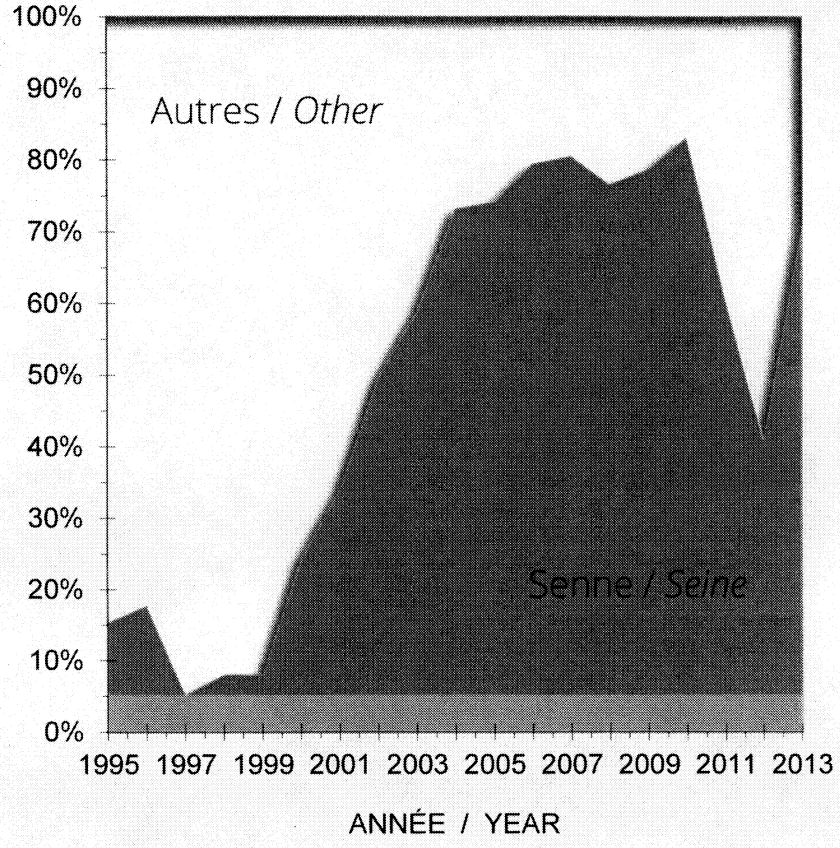
Pêche



DÉBARQUEMENTS PROVINCE / *PROVINCE LANDINGS* - 2013 -

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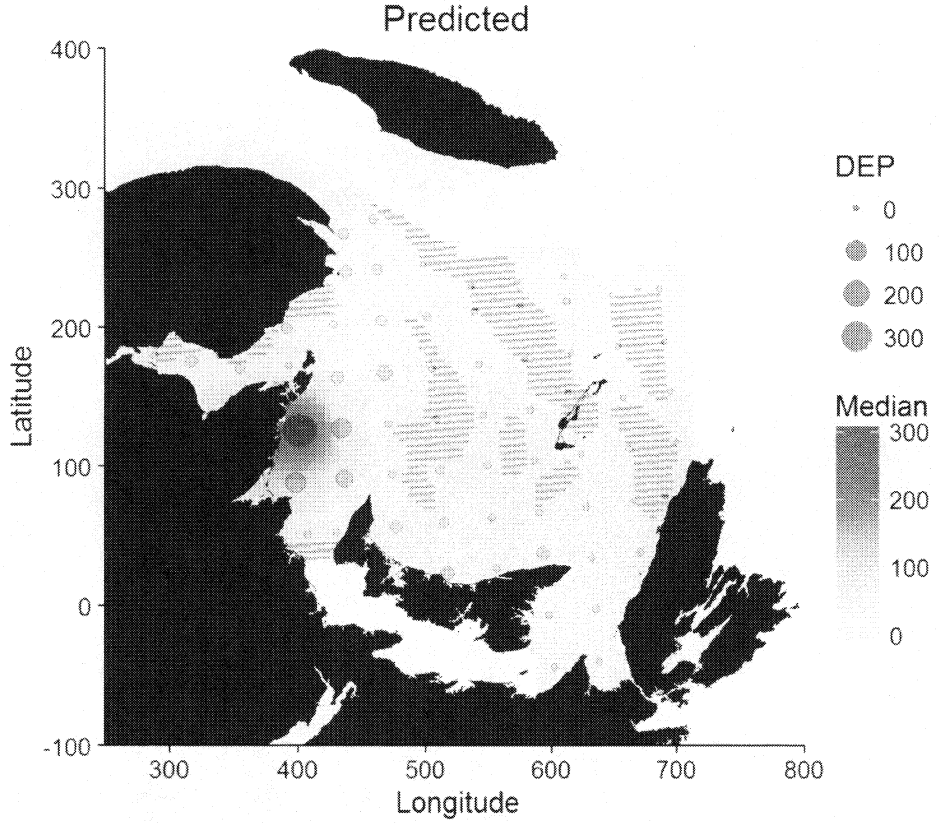


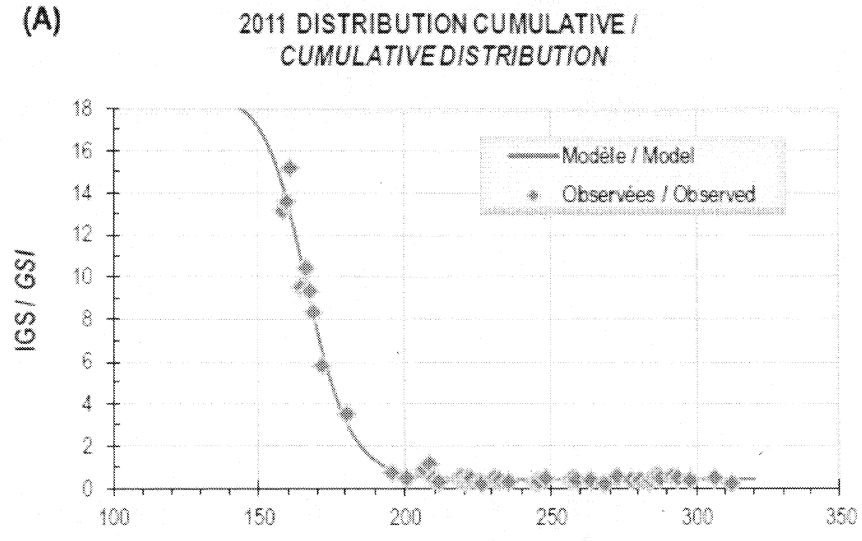
PROVINCE	ANNÉE / *YEAR*																			MOYENNE / *AVERAGE*
	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012[1]	2013[1]	(1995-2011)
N.-É. / *N. S.*	6 681	5 517	5 669	4 562	4 797	4 547	4 058	3 989	7187	5 325	4 935	2 526	2 831	1 961	1 454	666	416	683	388	3 948
N.-B. / *N. B.*	2 206	2 684	1 990	1 682	1 373	972	2 199	2 182	1734	1 398	1 047	1 499	1 426	1 205	1 762	1 260	903	524	111	1 619
Î.-P.-É / *P.E.I.*	2 518	4 018	6 693	6 784	3 842	4 134	5 979	6 088	4543	4 692	4 946	3 552	2 756	1 606	2 463	1 959	1 400	1 465	505	3 998
Québec	3 382	4 317	5 769	4 066	5 104	2 022	3 212	4 421	4597	1 979	1 221	1 818	1 750	1 863	2 316	1 709	1 345	1 177	1 282	2 994
T.-N. / *NFLD*	2 919	3 857	1 188	2 149	1 445	4 406	8 981	17 982	26675	40 383	42 471	44 196	44 253	23 036	34 237	33 159	7 337	2 619	5 145	19 922
ND / *NK*	0	0	0	91	0	0	0	0	0	0	0	58	0	0.2	0.2	0.2	0	0	0	9
TOTAL	17 706	20 394	21 309	19 334	16 561	16 080	24 429	34 662	44 736	53 777	54 621	53 649	53 016	29 671	42 231	38 753	11 400	6 468	7 431	

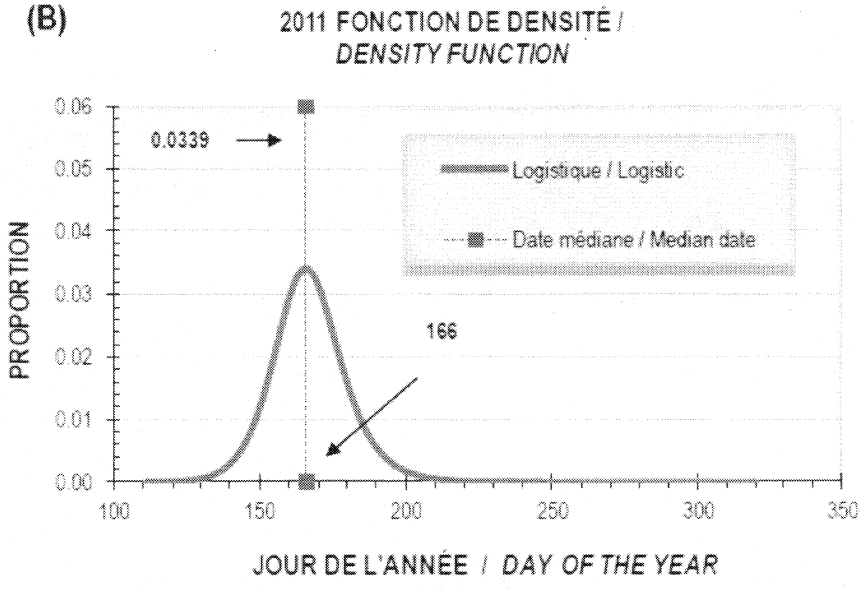
[1] Préliminaire / *Preliminary*

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Relevé des œufs

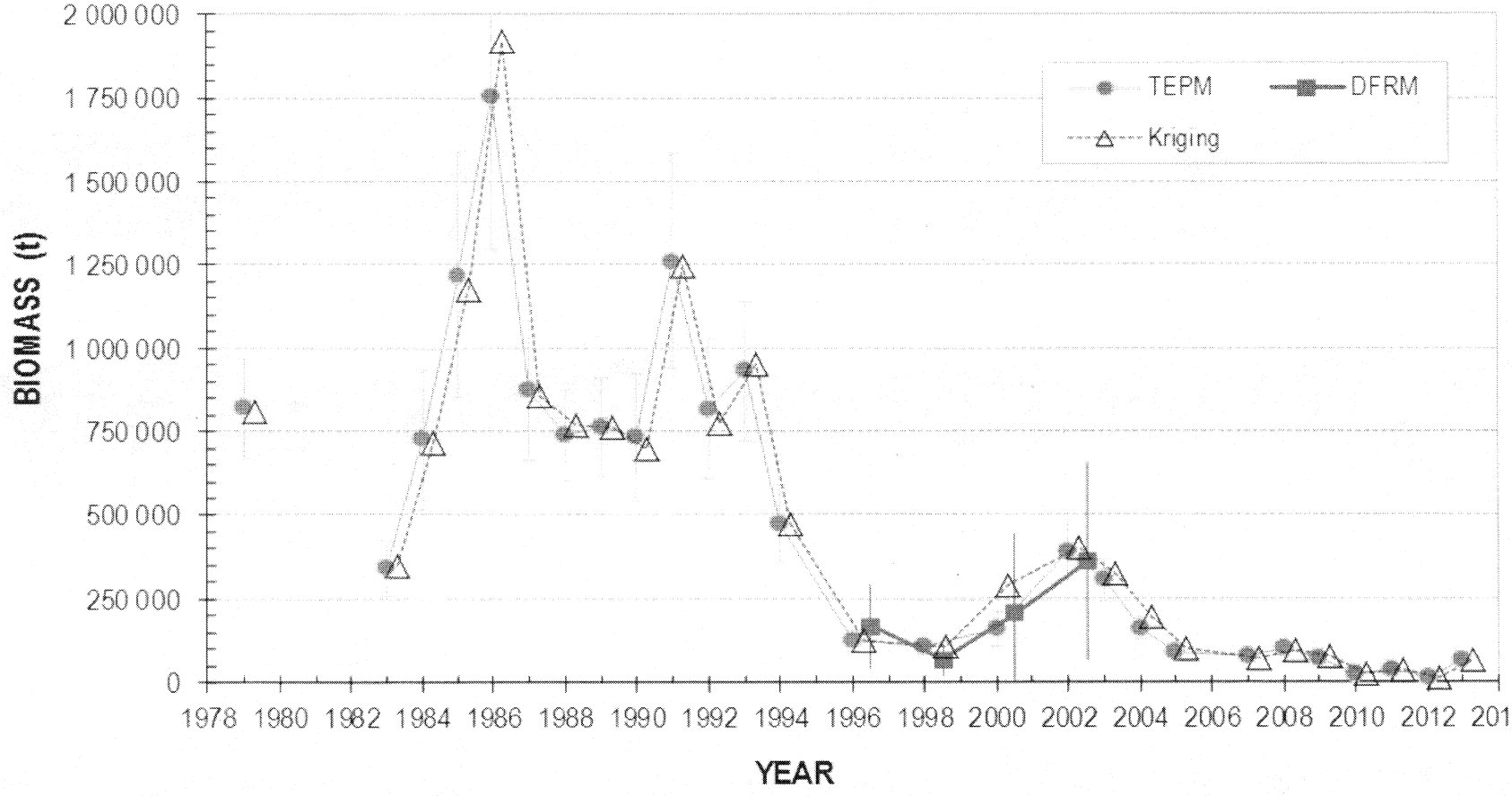






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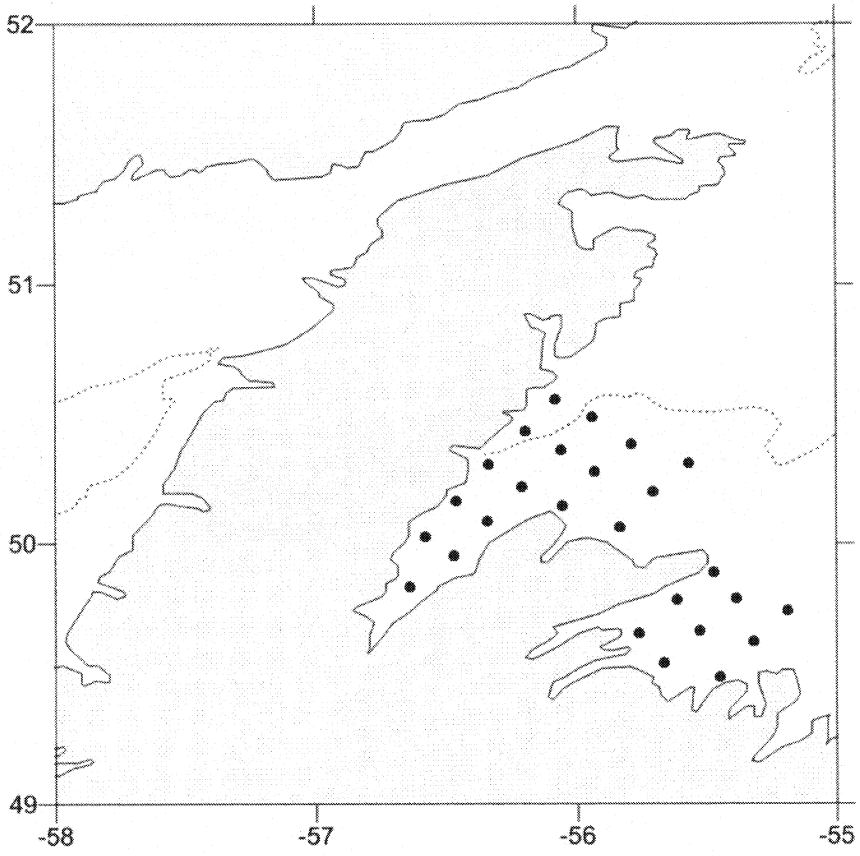
Indice d'abondance



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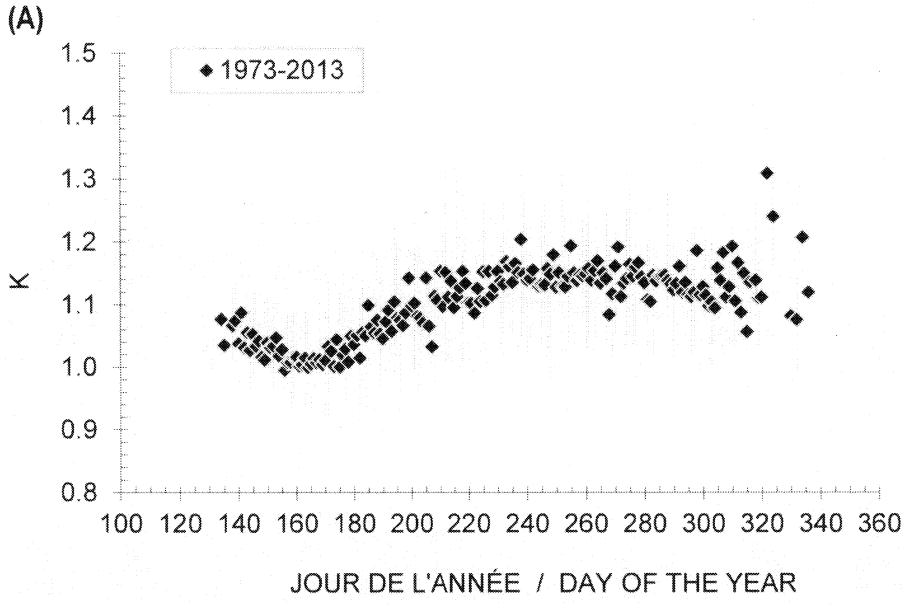
Relevés additionnels

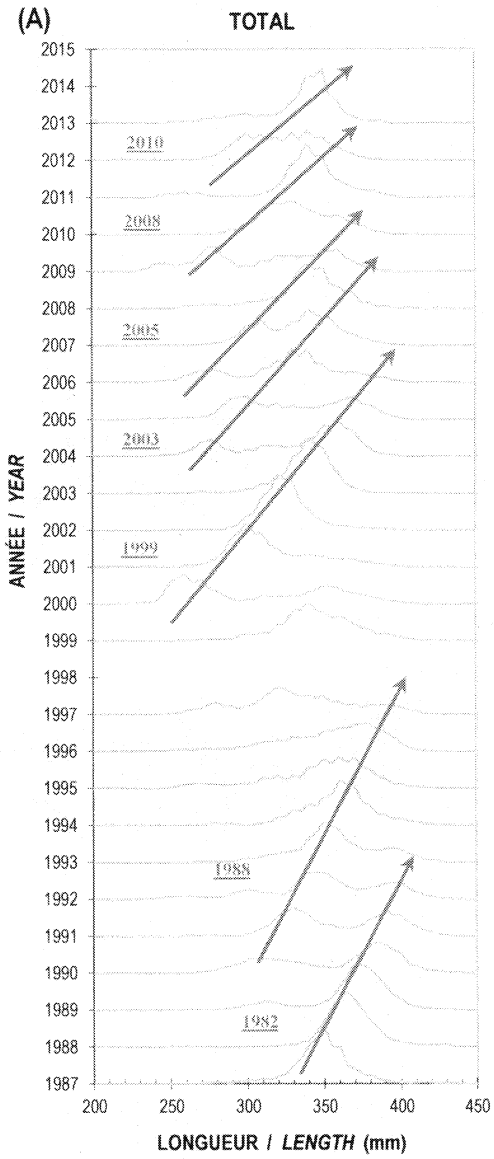
- **Objectif**: étendre les relevés (oeufs et larves) aux baies White et Notre Dame
- **Collaborateurs**: Dr. D. Robert (Memorial University), Dr. M. Castonguay & Dr. P. Pepin (MPO), Dr. E. Carruthers (FFAW)
- **Dates**: Juin-Août 2015 & 2016
- **Resultats**: aucun signe de ponte



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Échantillonnage





- Longueur – poids – croissance
- Condition corporelle
- Prises-à-l'âge
- Maturité
- Indice gonado-somatique

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Considérations environnementales

- Lien entre la température et les moments de la migration et de la ponte

- Lien entre le moment de la ponte et l'expérience d'alimentation des adultes.

- Lien entre la température de surface et l'expansion de la distribution spatiale.

- Changement de distribution et compétition avec le hareng pour l'alimentation.

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Considérations environnementales: 2013

- Tendance commune dans les séries temporelles d'abondance des larves récoltées dans le sud du golfe du Saint-Laurent 1983 – 2012

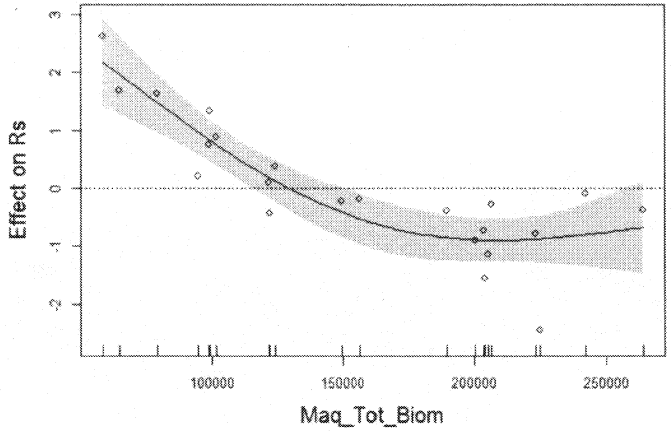
- baisse importante entre 1983 et 1995 suivie d'une période stable jusqu'en 2004; baisse à nouveau observée jusqu'en 2010 suivie d'une légère hausse jusqu'en 2012

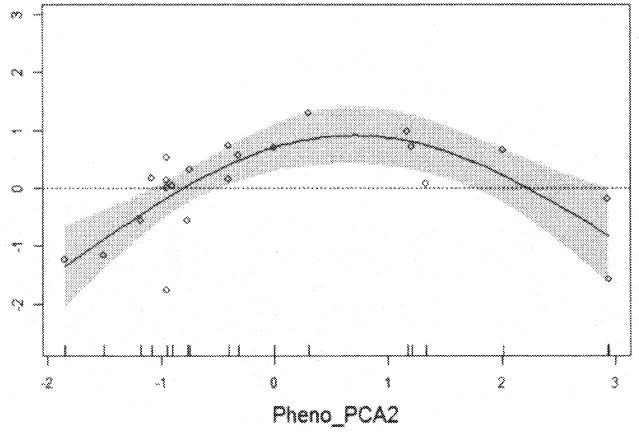
- Les espèces qui sont le plus fortement associées à cette tendance sont la morue, le capelan, la limande à queue jaune, le maquereau et le sébaste (toutes des espèces commerciales...).

- Deux variables explicatives ont été identifiées: (1) la température de la CIF, et (2) l'indice d'abondance du plancton.

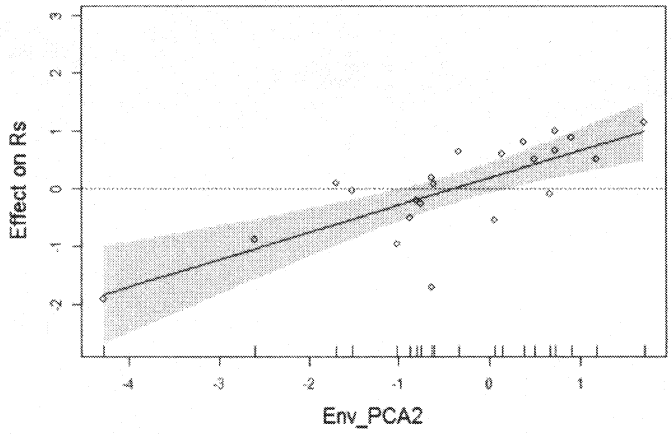
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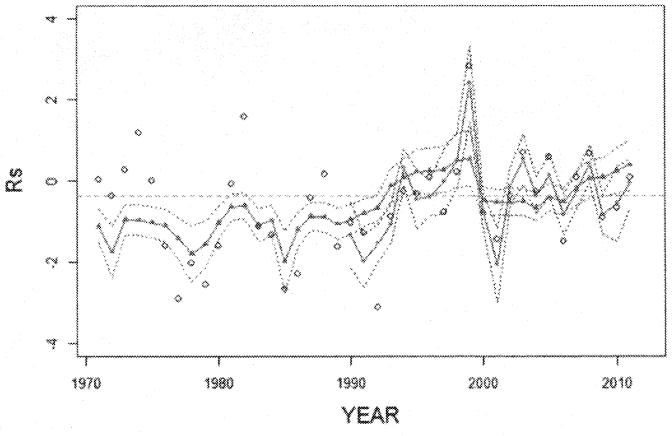
Taux de recrutement (Rs): maquereau





Rs ~ SSB, DEV = 25 % DEV = 76 %





Plourde et al. 2015a

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Problématiques

Prises non-rapportées:

- Maquereau utilisé comme appât pour la pêche au crabe et homard
- Une grande partie des prises ne sont pas rapportées: appât pour usage personnel, ventes de pêcheur à pêcheur, pêche récréative, logbooks non remplis
- Différences entre régions de gestion
- Cela crée un problème **majeur** affectant la qualité de l'évaluation

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Évaluations antérieures

1986 – 2012:

- ASP ne convergent pas (F << M)
- M = 0.3 puis 0.2
- Indices dérivés de la pêche (abandonné)
- Indice des œufs = absolu

2012 & 2014:

- Integrated catch-at-age
- ajusté à l'indice œufs (>1996)
- M_{2012}=0.2, M_{2014}= Gislason et al. (2010)

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FORMULATION DE L'ÉVALUATION 2014

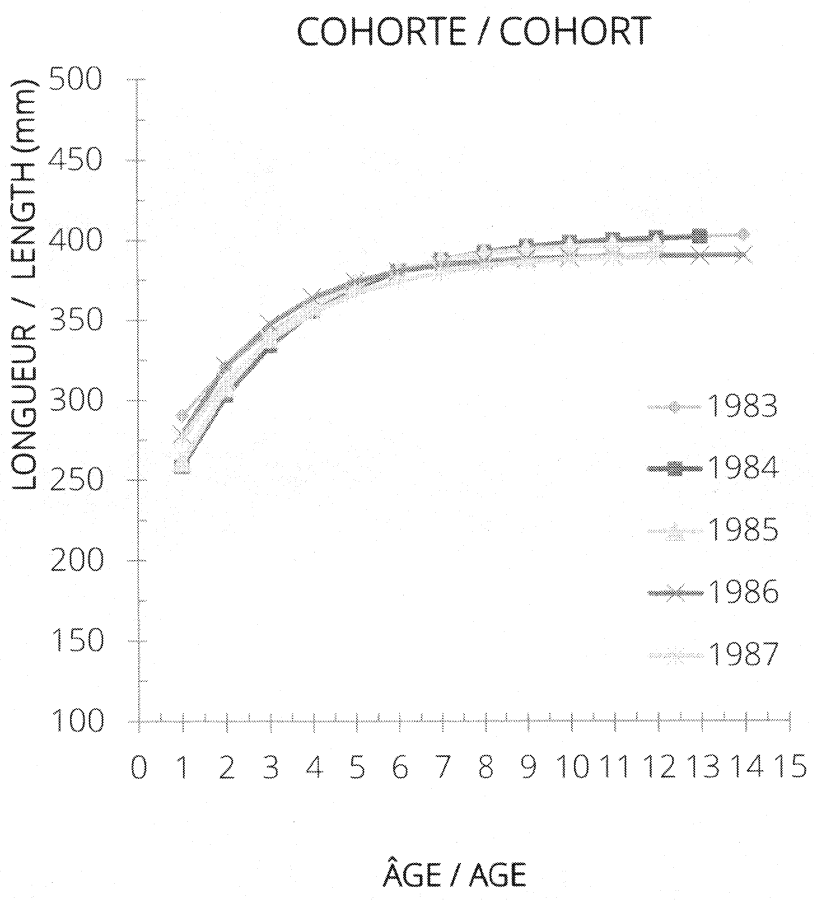
Paramètres d'entrée	
Première année	1968
Dernière année	2013
Nombre d'années pour la contrainte séparable	12
Patron constant de sélectivité	S1(2002–2013)
S à être fixée sur le dernier âge	1.20
Étendue des âges	1-10^{+}
Mortalité naturelle	selon Gislason et al. (2010)
Proportion de M et de F avant la ponte	0.5
Âge de référence pour la contrainte séparable	3
Premier âge pour le calcul du F de référence	4
Dernier âge pour le calcul du F de référennce	10
Compresser la population finale	Non
Indice de calibrage:	
Relevé des œufs PMZA-maquereau bleu	
Année	1996–2013
Relation avec l'indice d'abondance	Linéaire
Pondération du modèle	
Poids relatifs dans la capture à l'âge	1
Pondération des indices à l'âge du relevé	1
Modéliser une relation stock-recrutement	Non
Paramètres à être estimés	40
Nombre d'observations	122

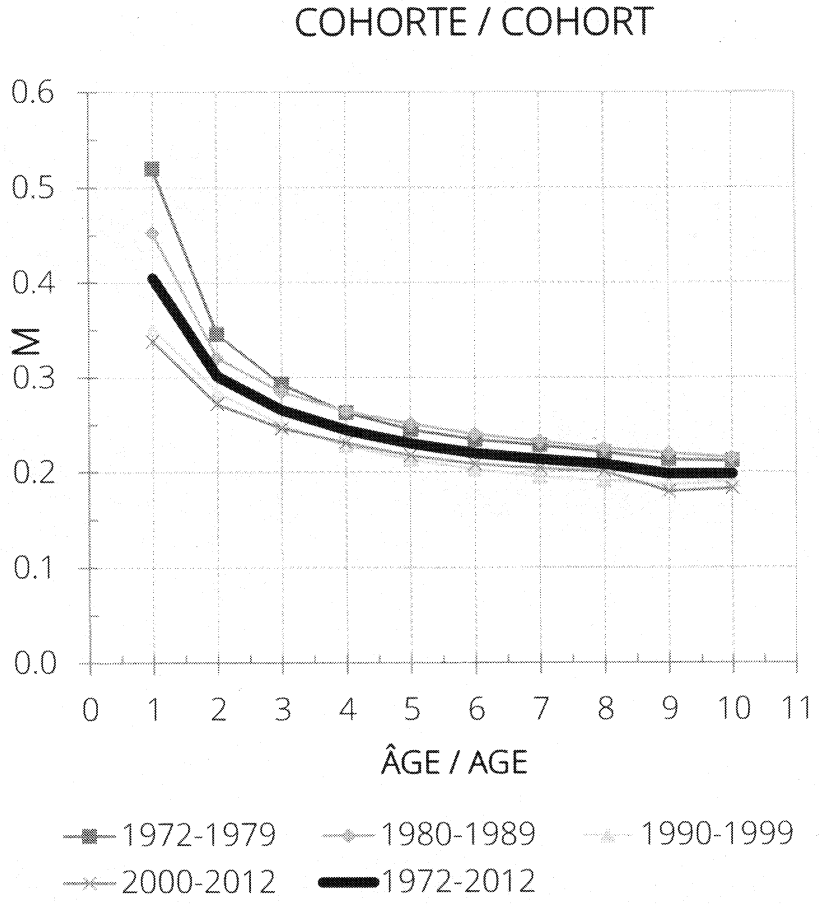
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Mortalité naturelle (2014)

Calcul de M / *M Calculation*

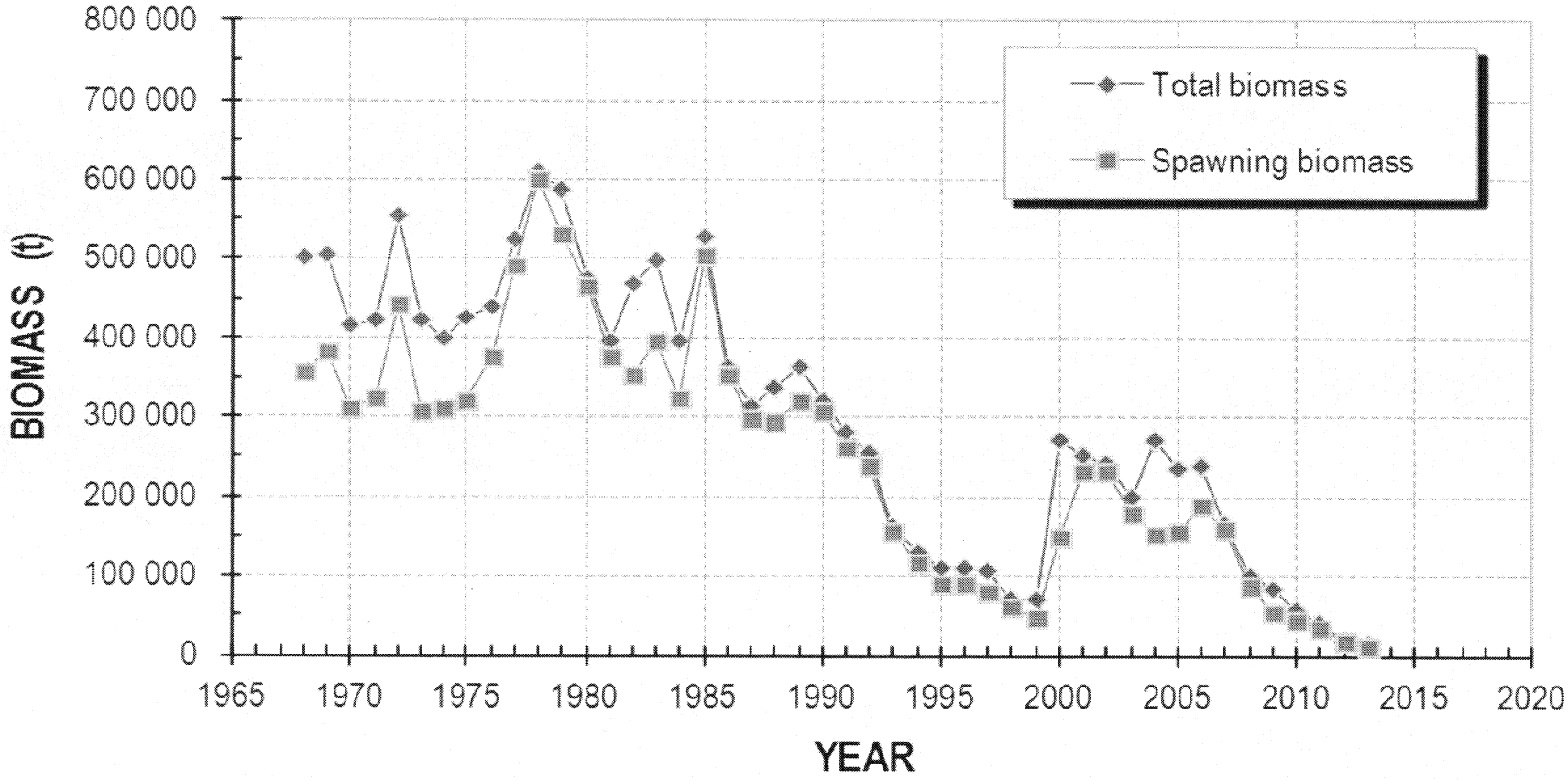
Modèle de Gislason *et al.* 2010





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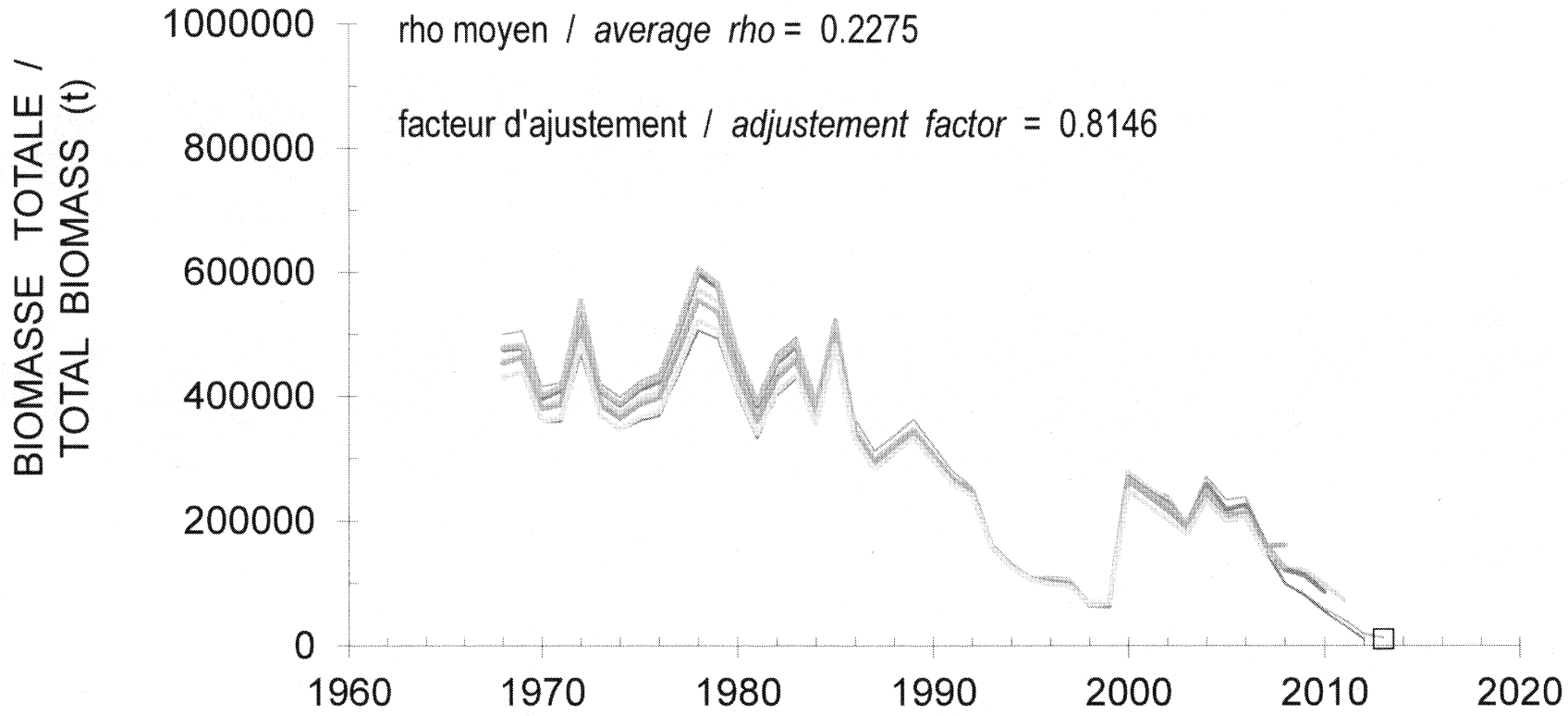
Évaluation analytique 2014



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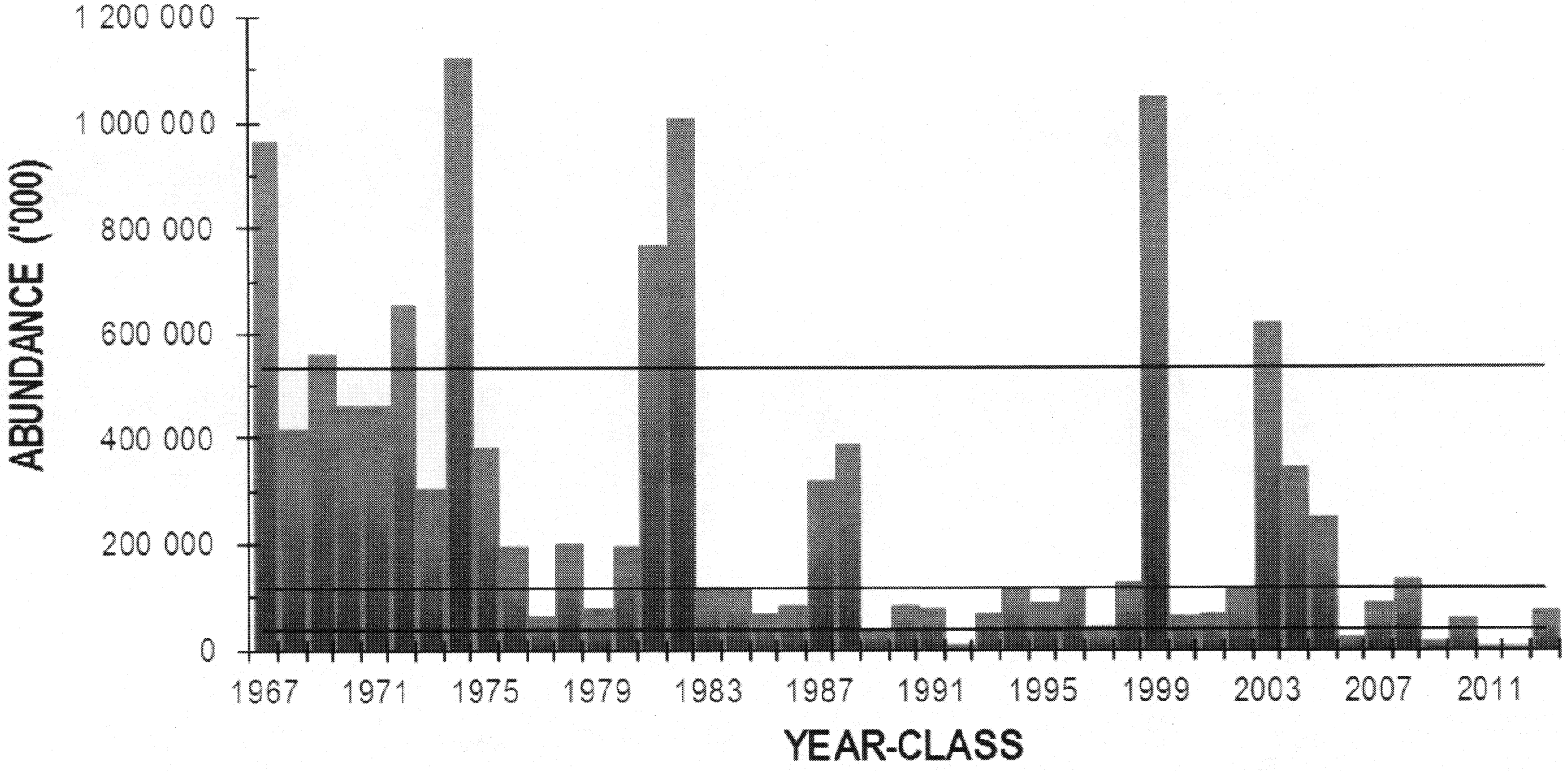
Patrons rétrospectifs

(B)



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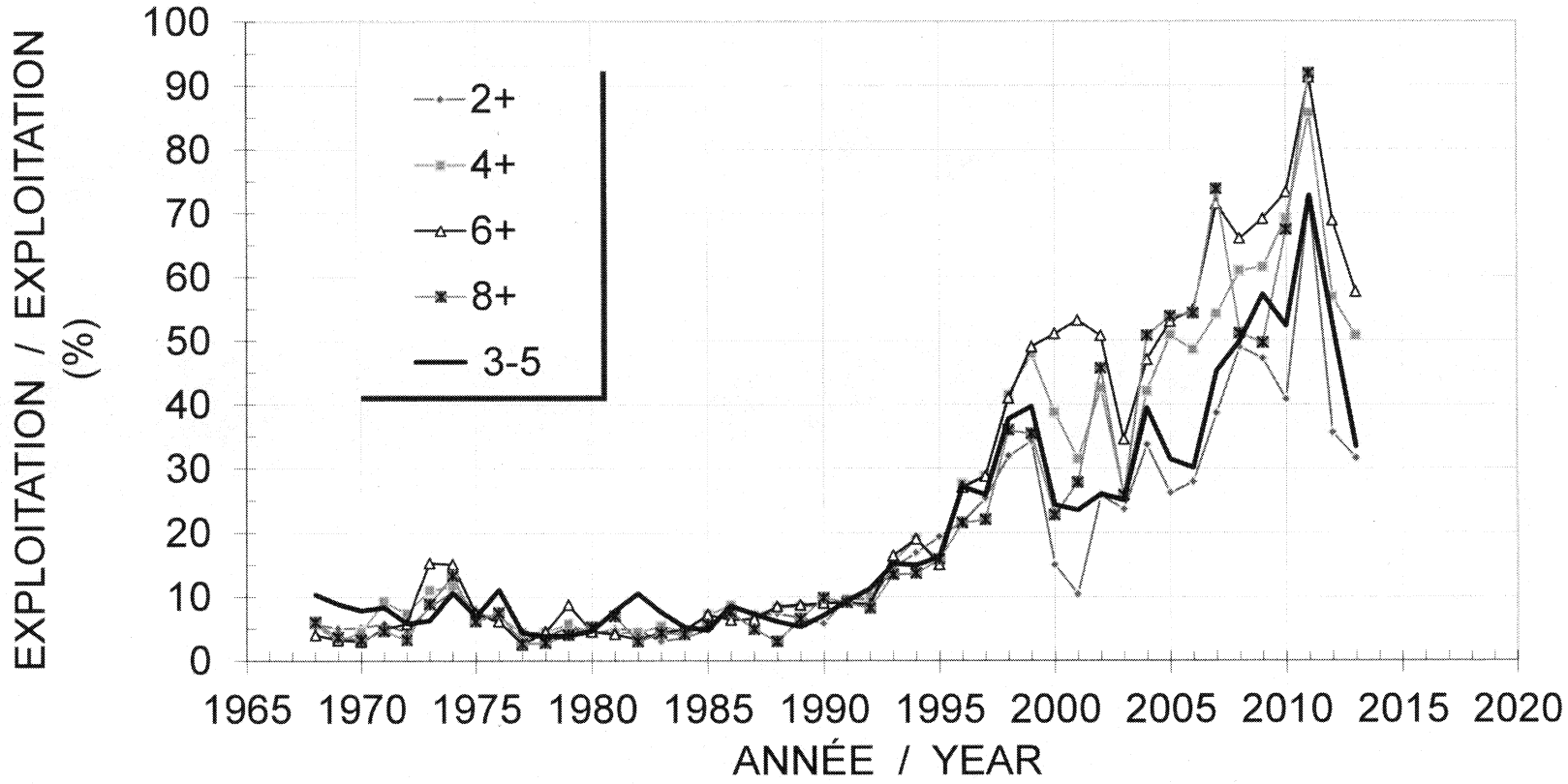
Recrutement



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Taux d'exploitation

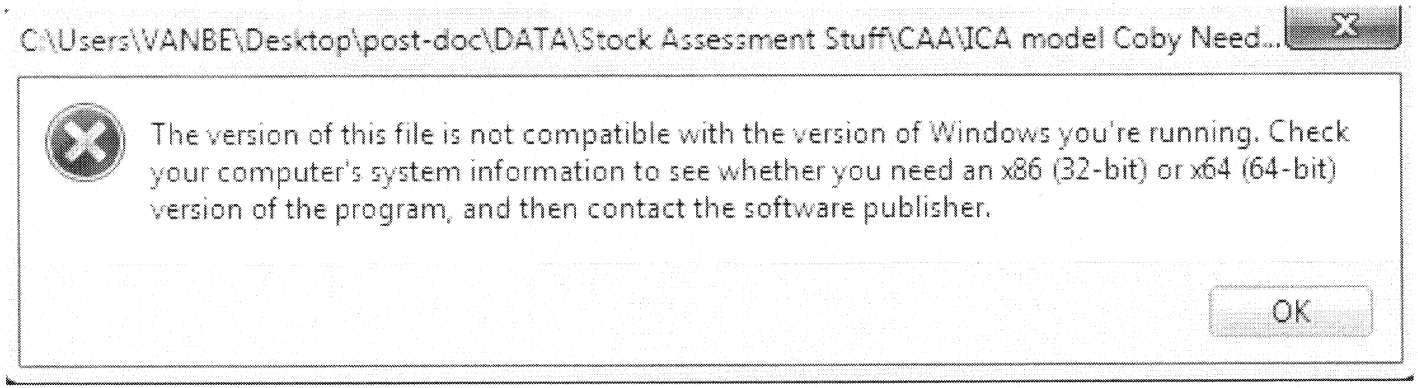
(C)



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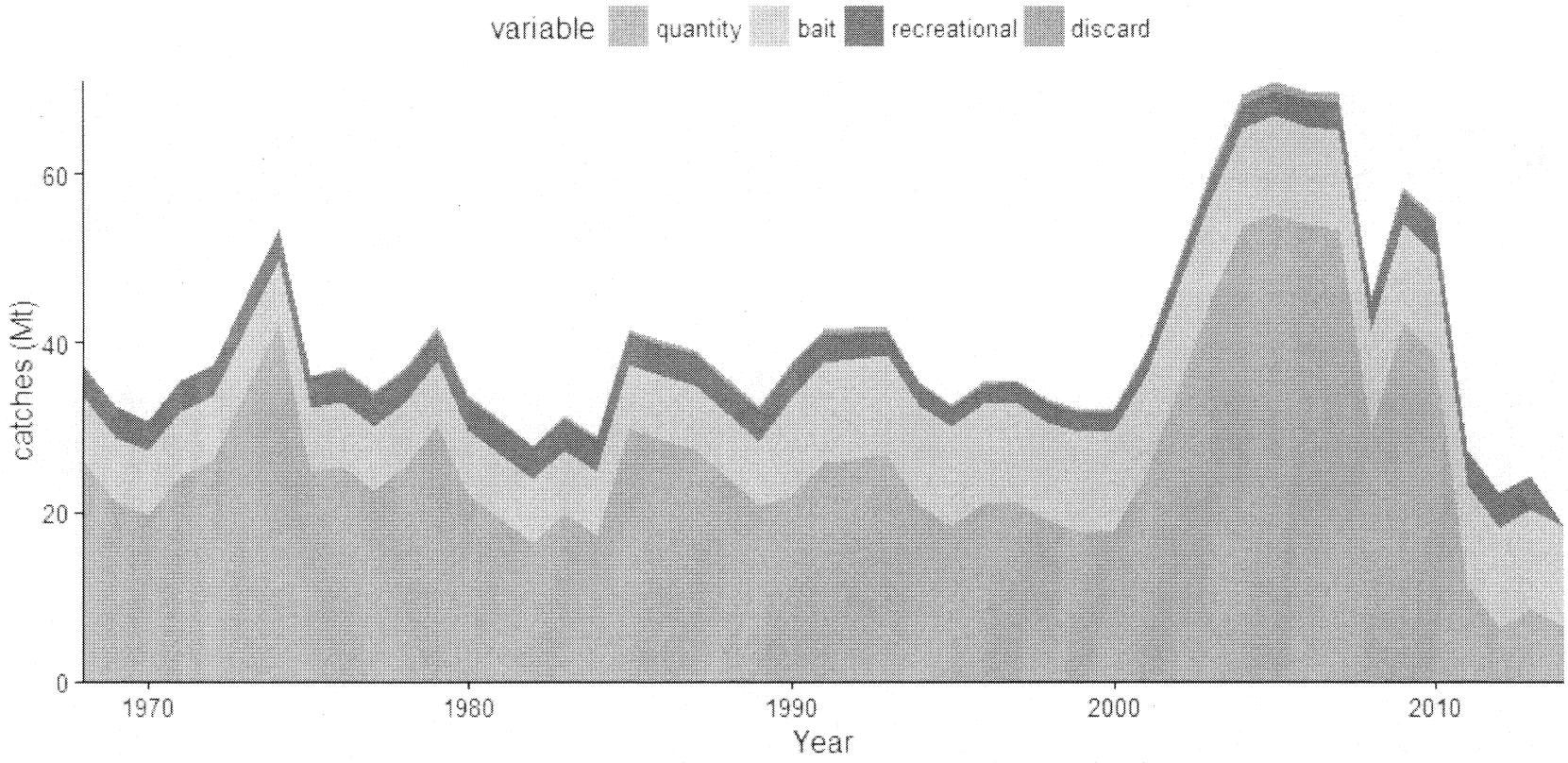
Problèmes

- « ICA » désuet et incompatible
- Ne tient pas compte des prises non-déclarées
- Taux d'exploitation de la SSB peu réaliste



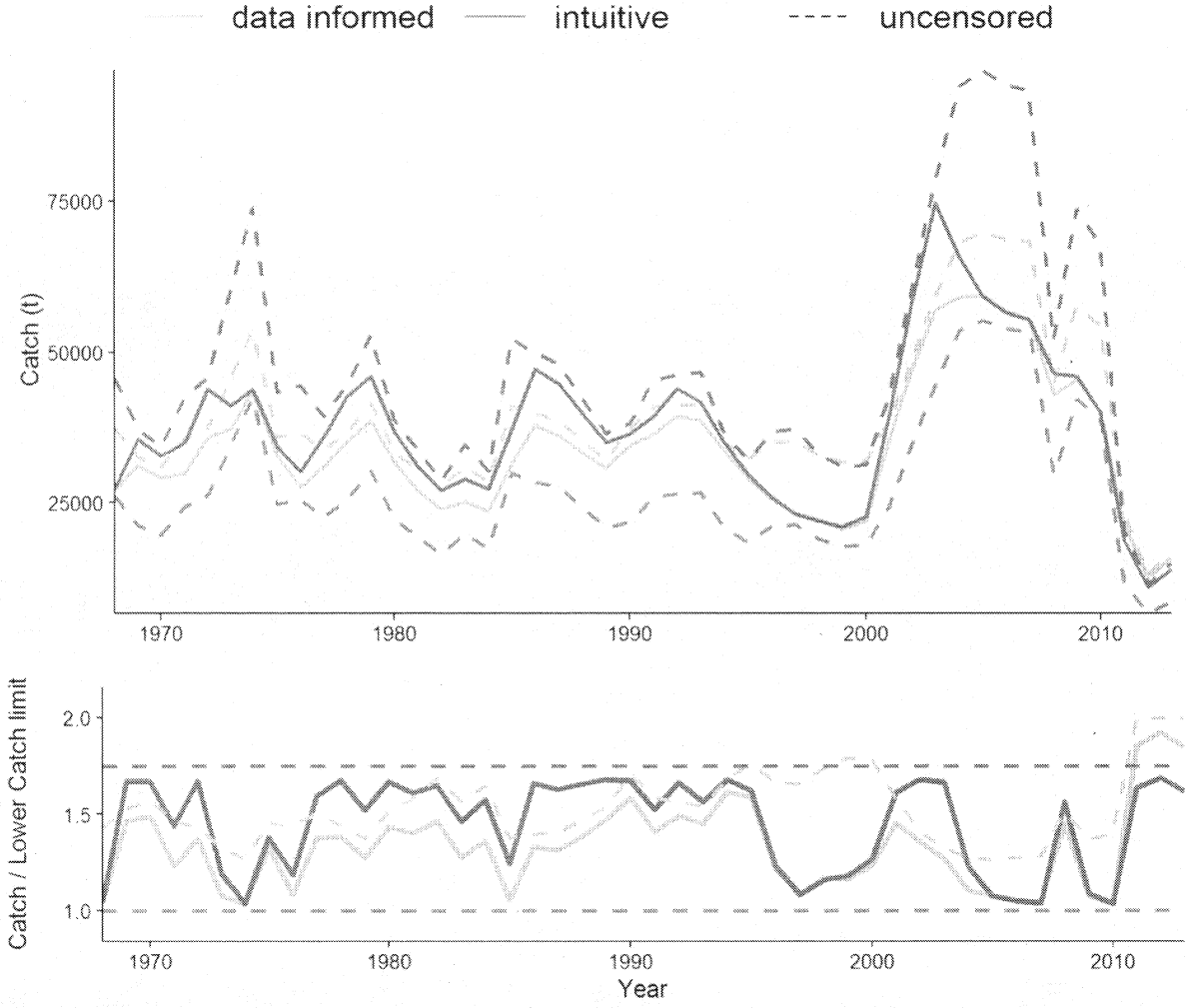
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Limite informée



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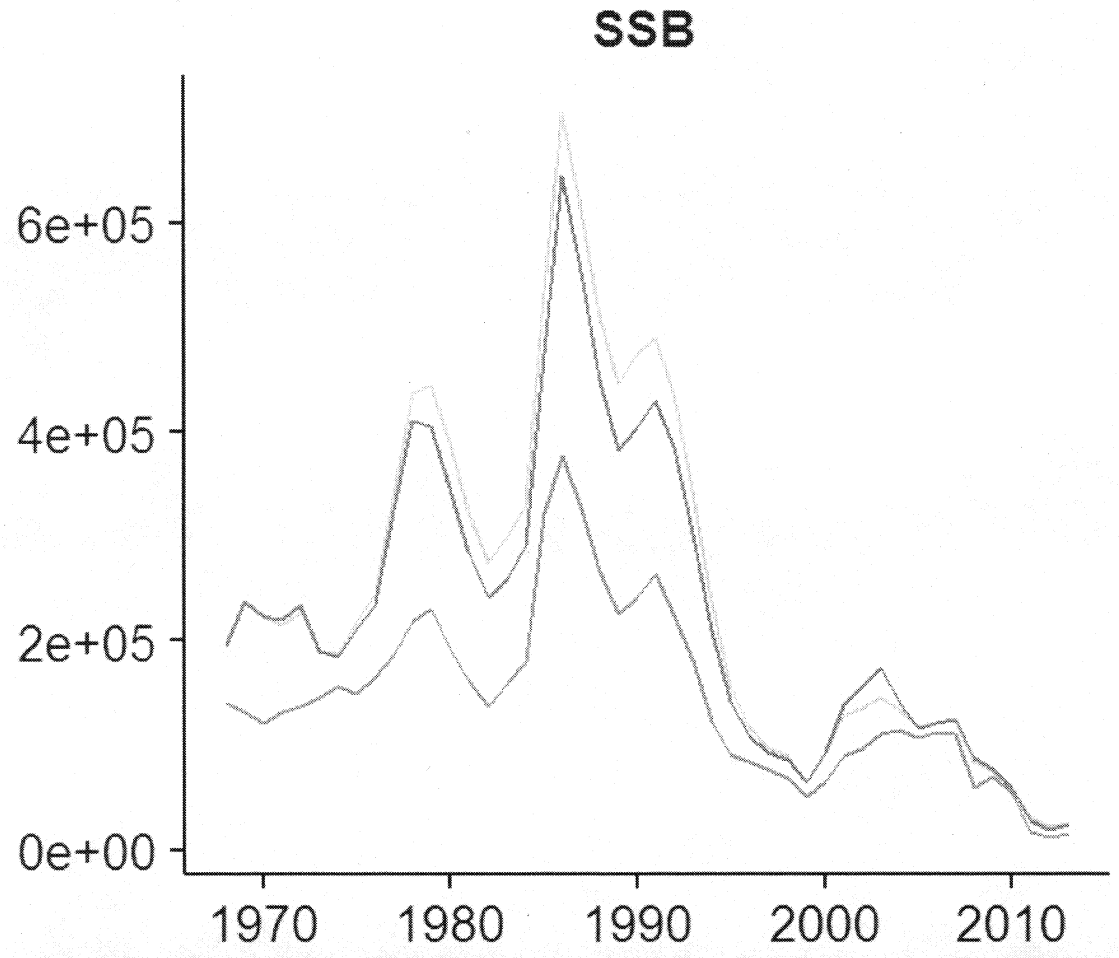
Comparaison des 3 modèles



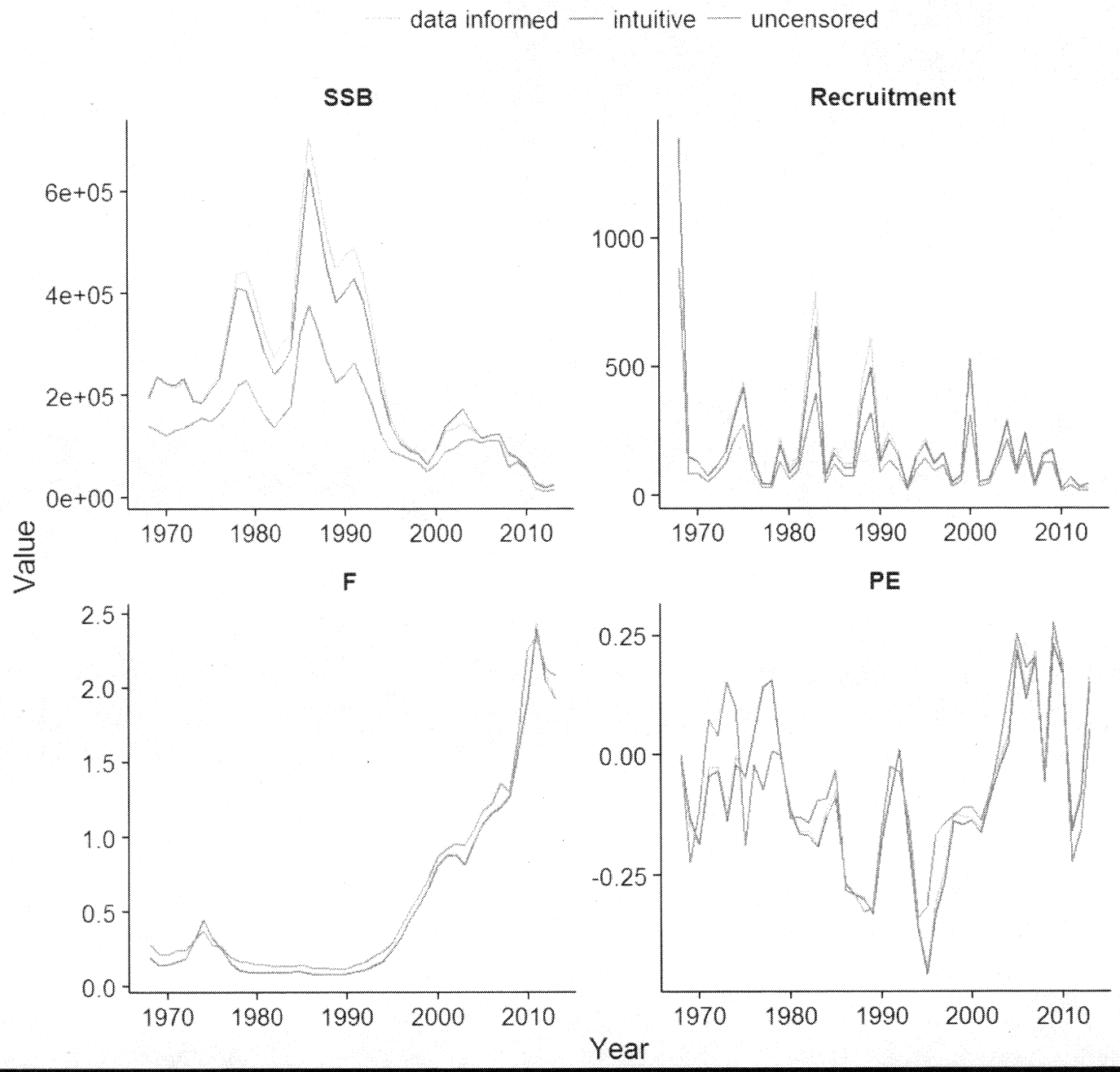
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Comparaison des 3 modèles

data informed ——— intuitive - - - - uncensored

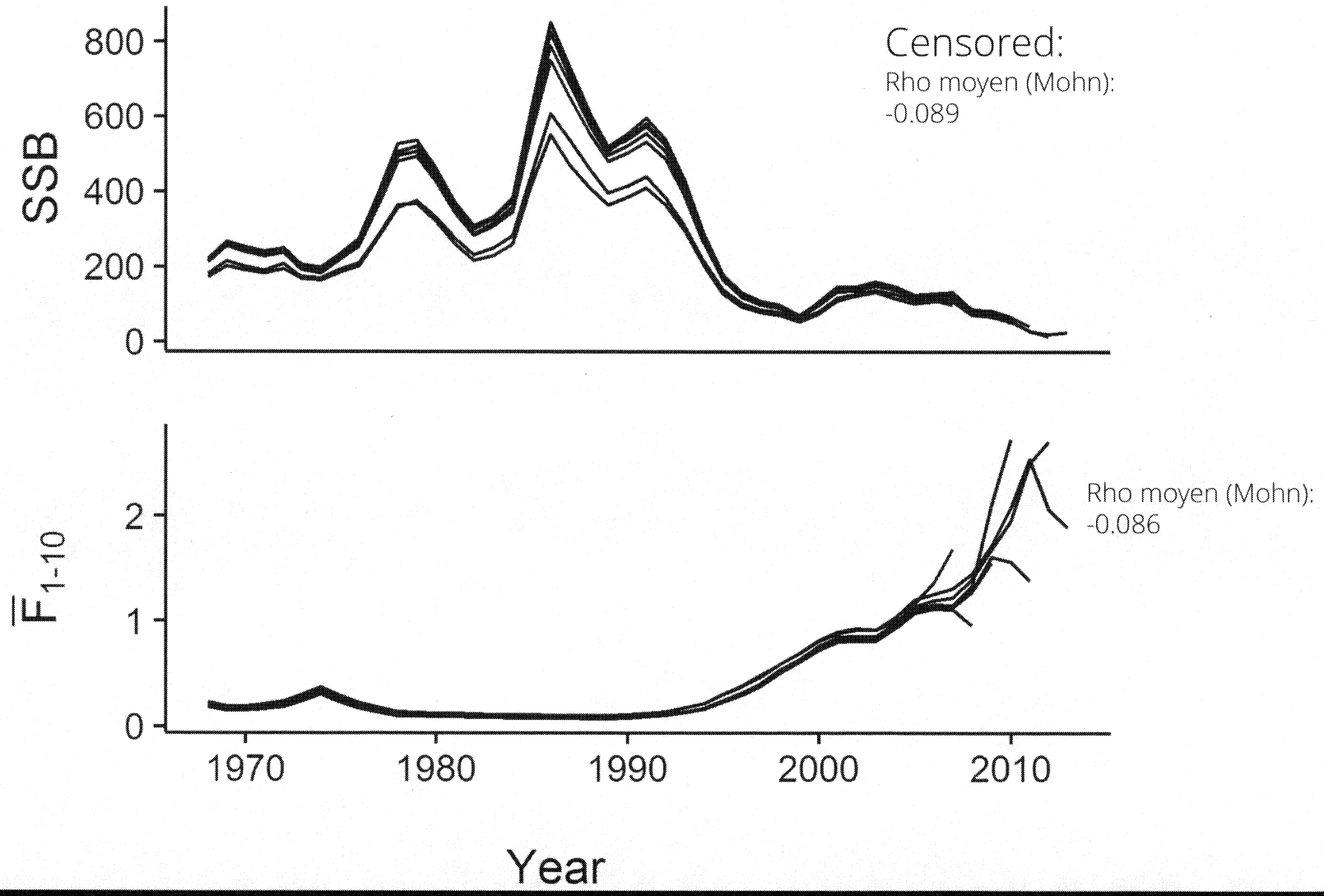


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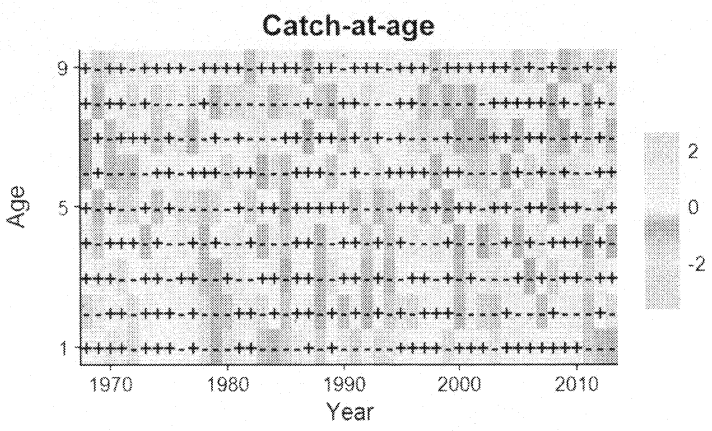


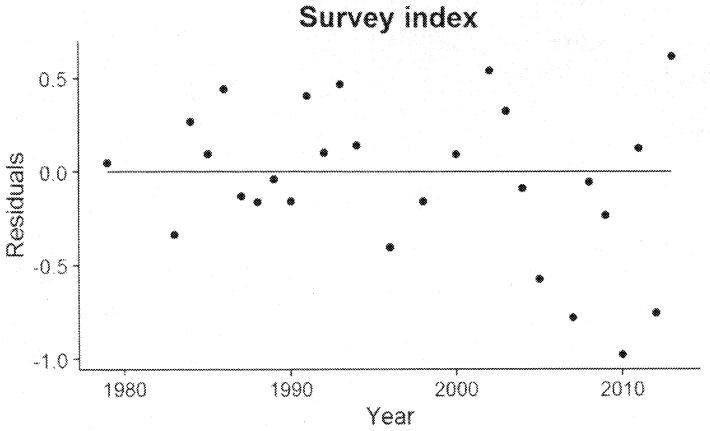
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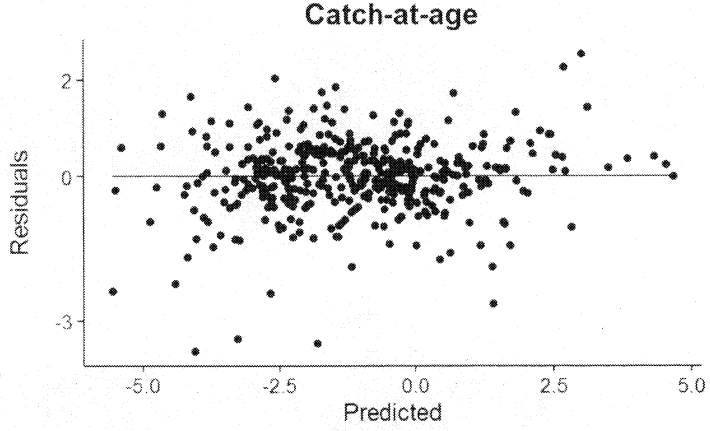
Retrospective patterns

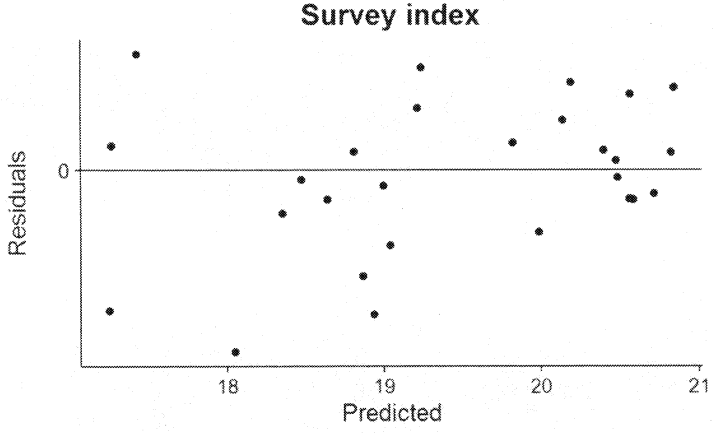


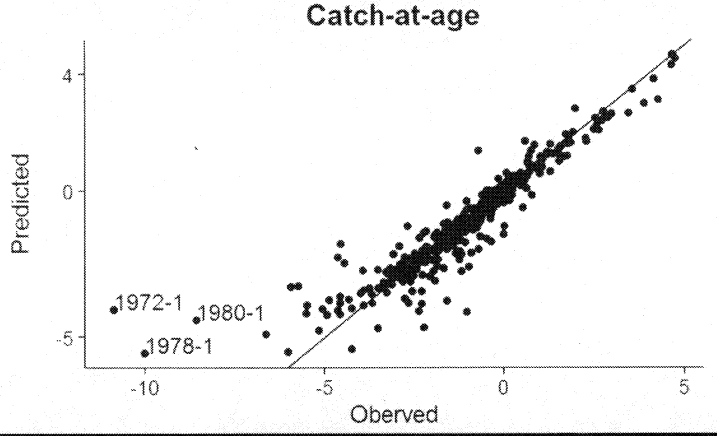
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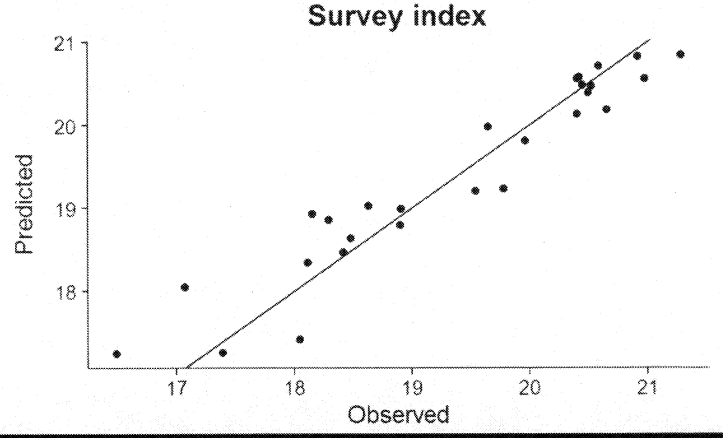






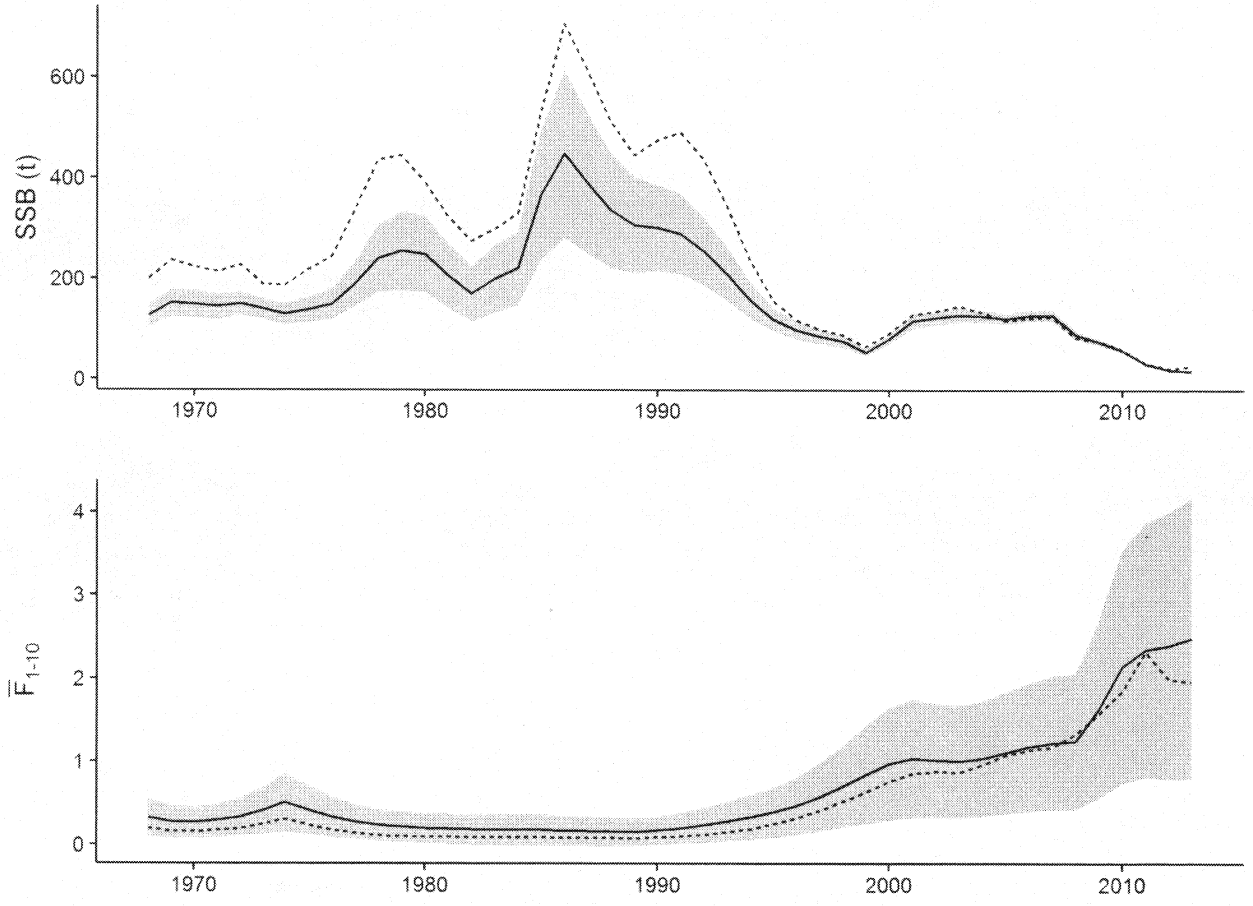






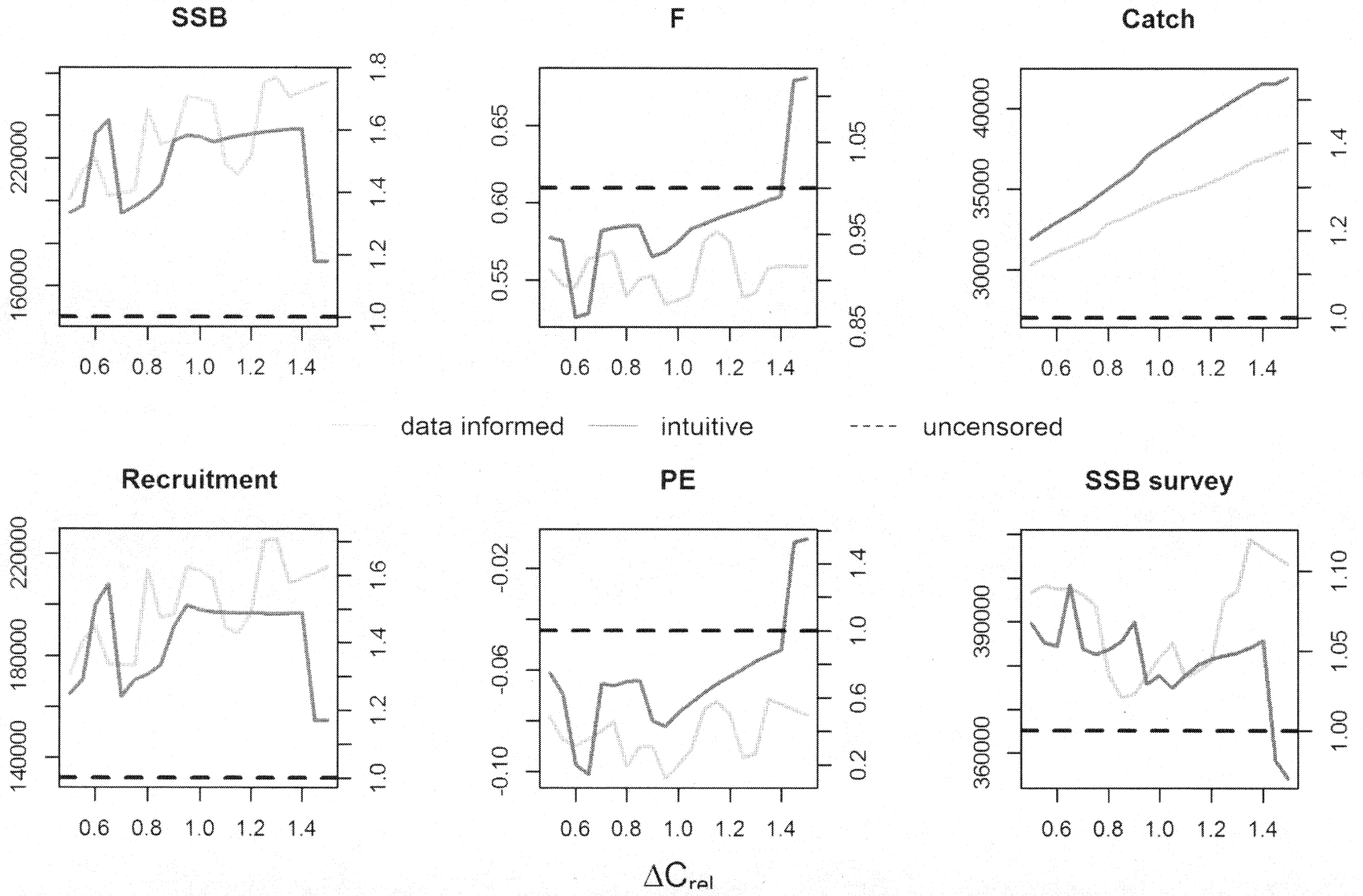
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Simulations



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Sensibilité



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Comparaison avec ICA

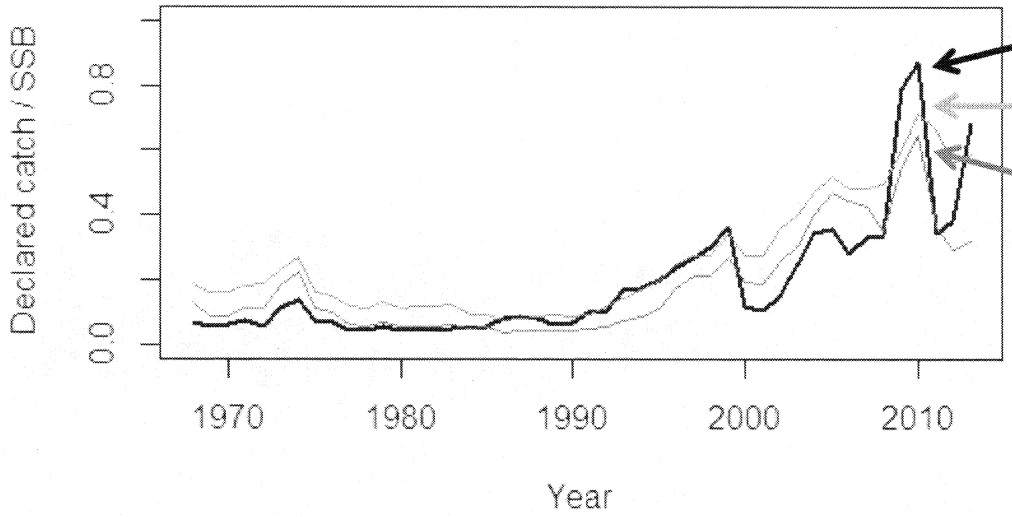
- Différents cadres statistiques:

  process error, effets aléatoires, structure d'erreur pour les prises-à-l'âge, relation stock-recrutement

- Différences dans les données et paramètres:
  - M = 0.2 vs. Gislason: M by age and year (0.17 – 0.85)
  - Indice des œufs: >1996 vs >1979

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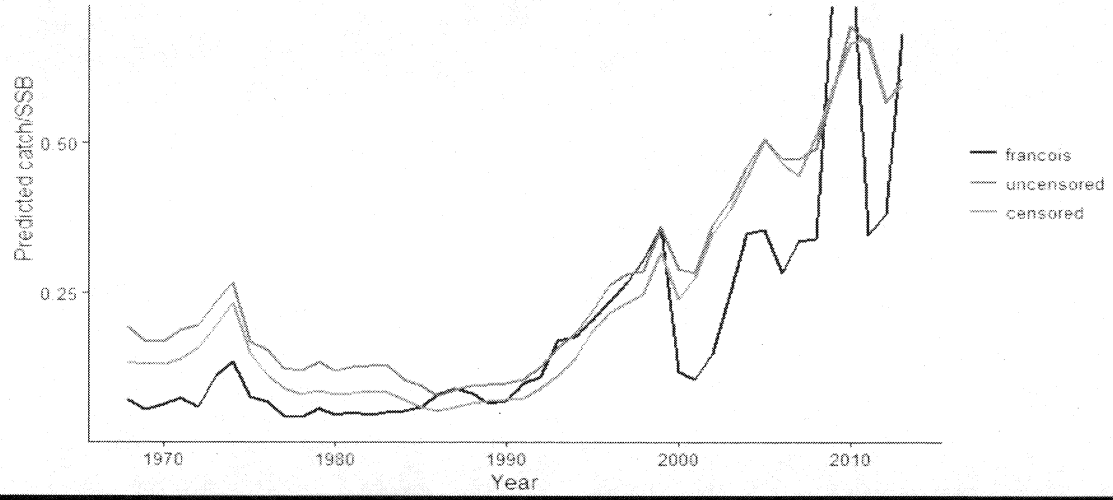
Taux d'exploitation



87%!!!!!!

TMB uncensored: 72%

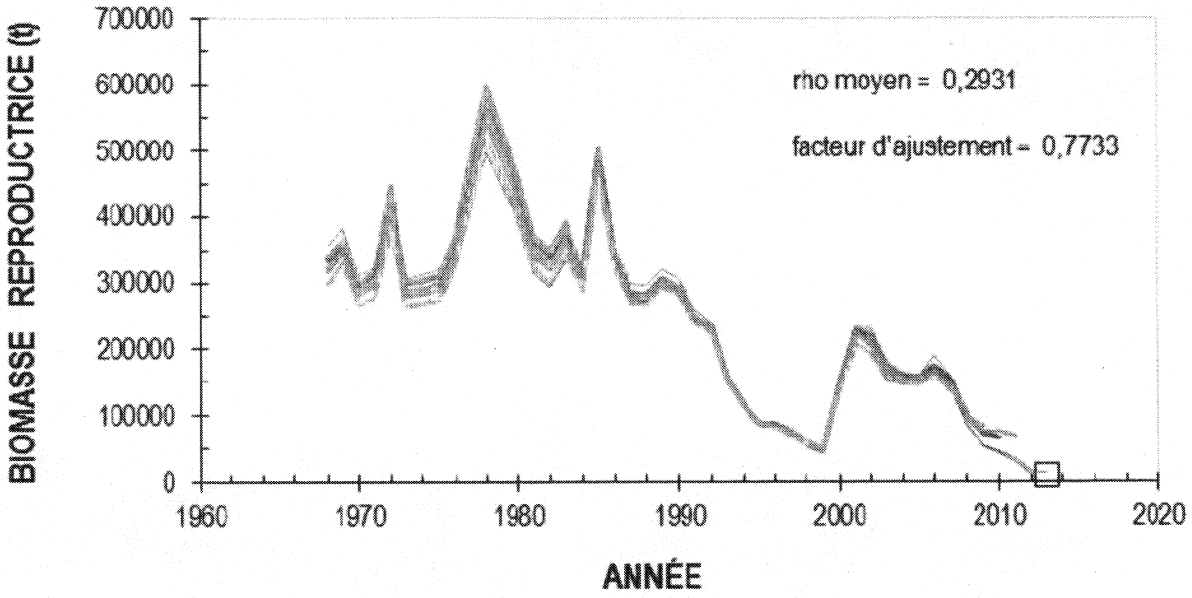
TMB censored: 64%



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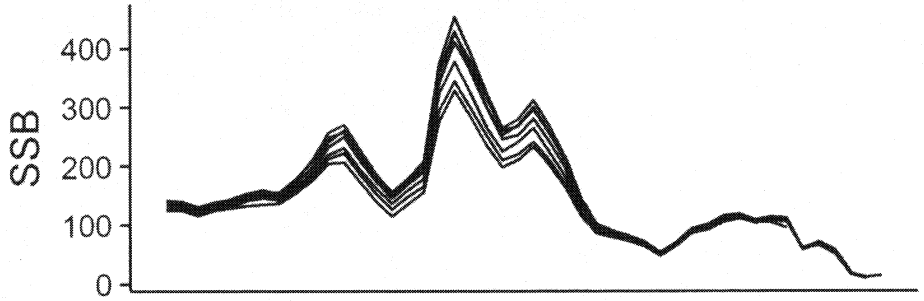
PATRONS RÉTROSPECTIFS

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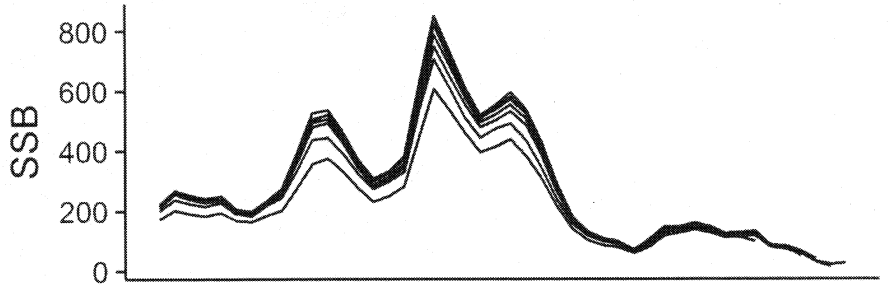
Uncensored

Rho moyen (Mohn):
-0.024

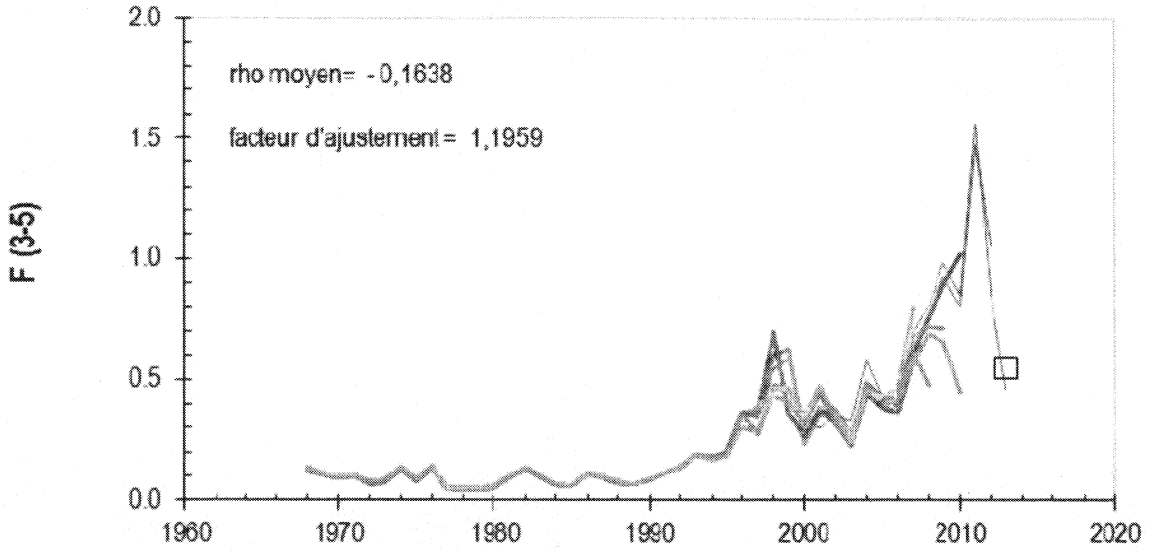


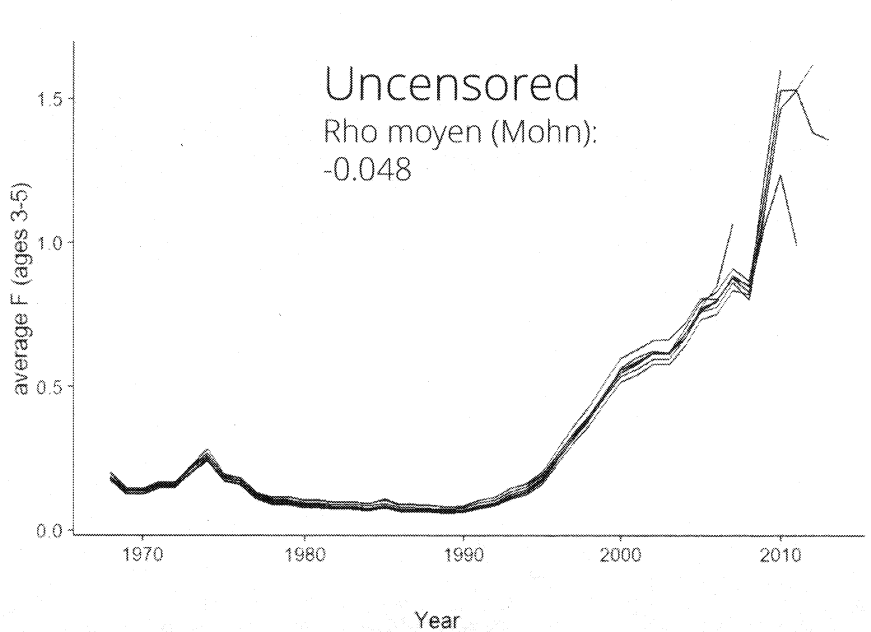
Censored

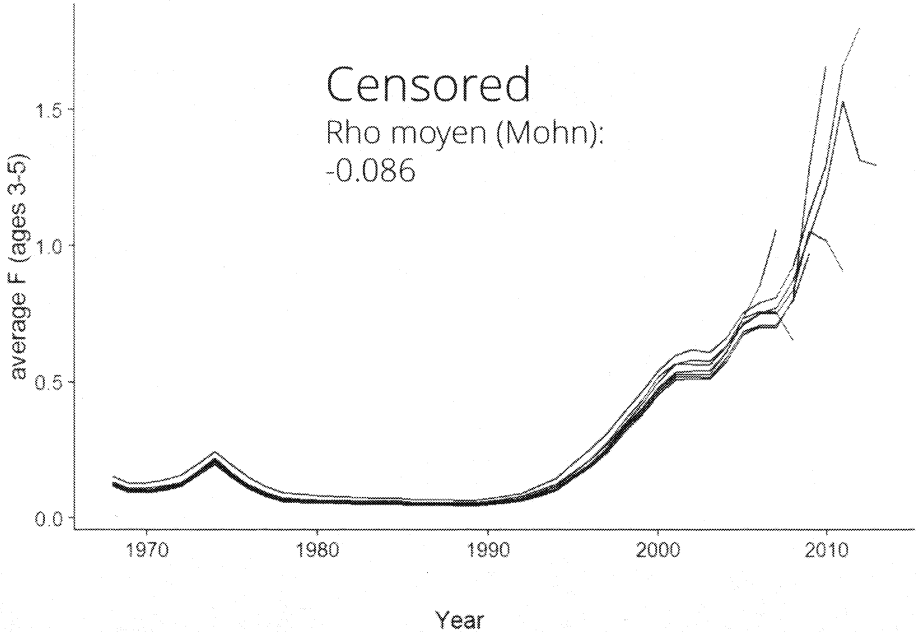
Rho moyen (Mohn):
-0.089



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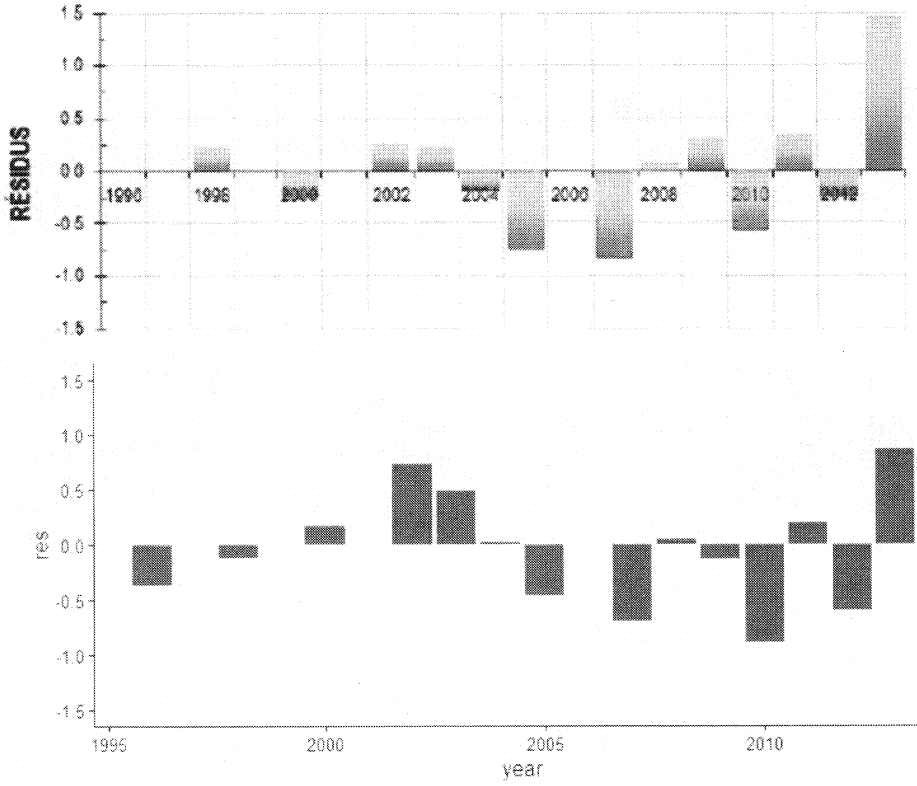


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RÉSIDUS

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Indice d'abondance des œufs

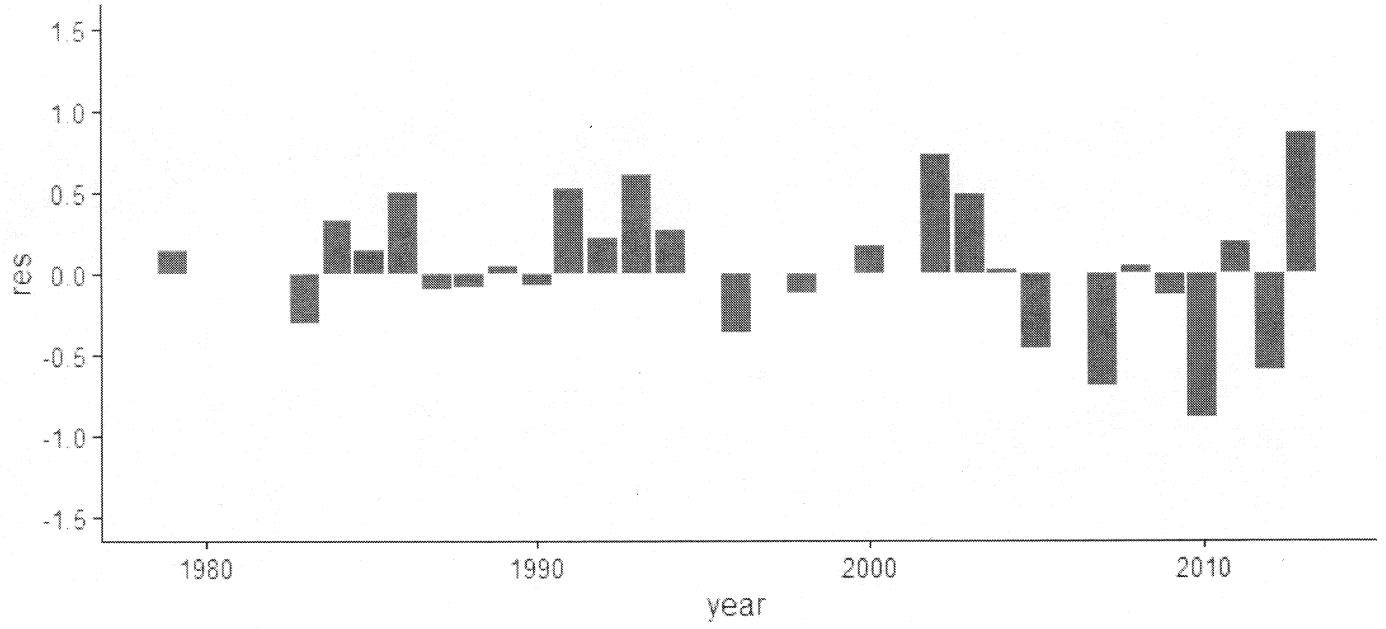


ICA:
RSS = ~ 4,3

Censored TMB:
RSS = 3,7

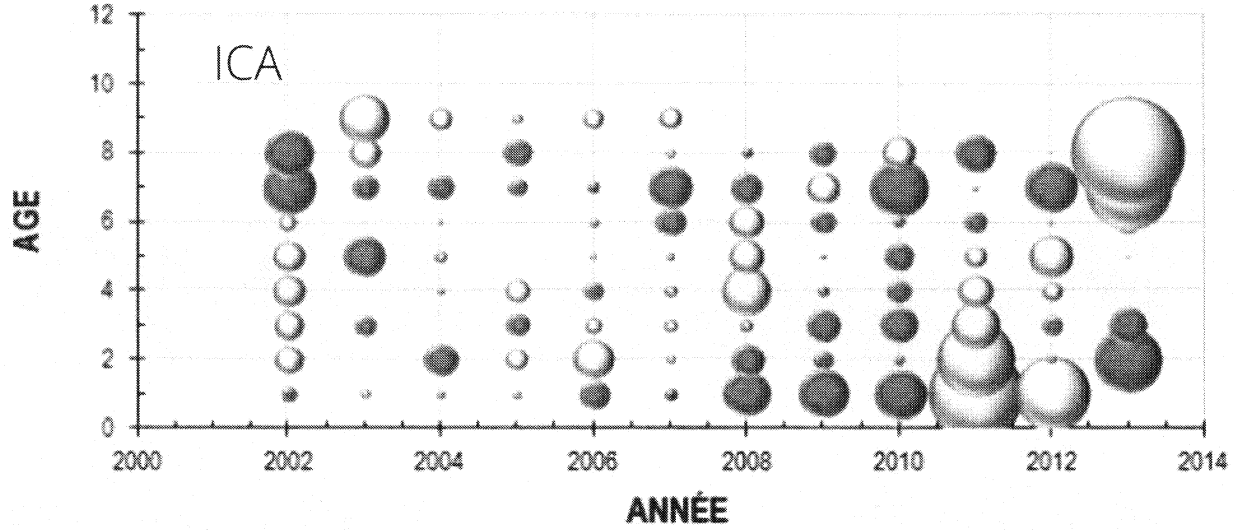
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Indice d'abondance des œufs



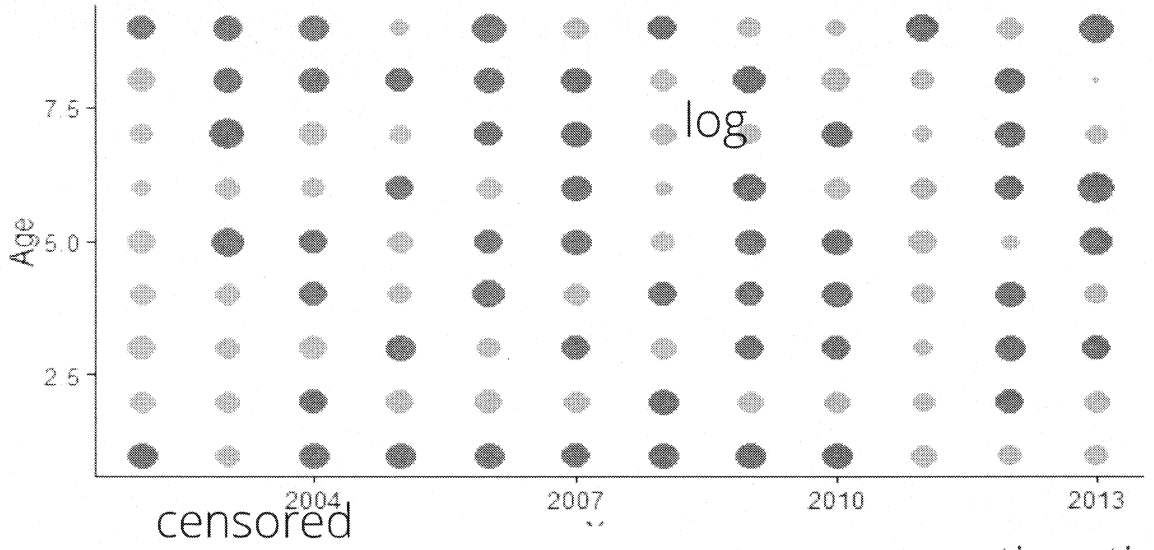
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Prises-à-l'âge



Residus sur échelle log

blanc= -
rouge= +



censored

continuation ratio logit

Pages 311 to / à 337

are duplicates

sont des duplicatas

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Points de référence

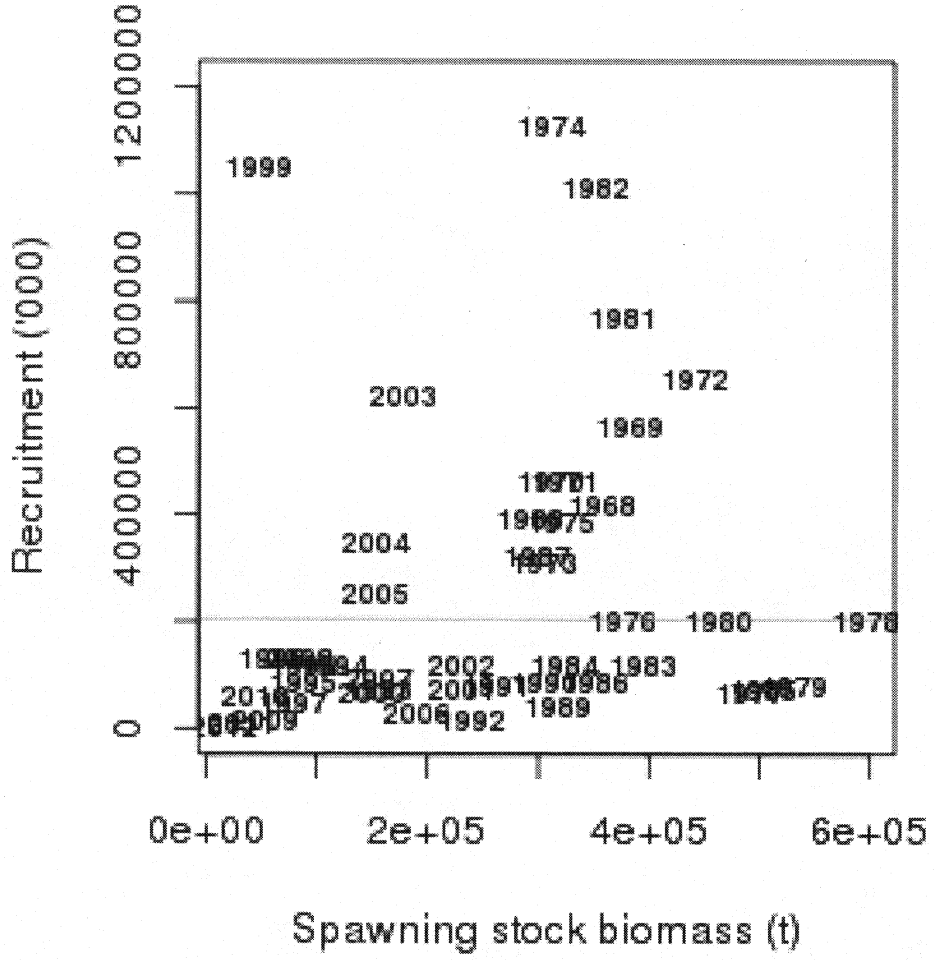
Duplisea, D. and Grégoire, F. 2014. A biomass limit reference point for NAFO subareas 3 and 4 Atlantic mackerel (*Scomber scrombus*). DFO Can. Sci. Advis. Sec. Res. Doc. 2014/066. v + 8 p.

Biomass limit reference points were estimated for NAFO subareas 3 and 4 Atlantic mackerel based on common methods :

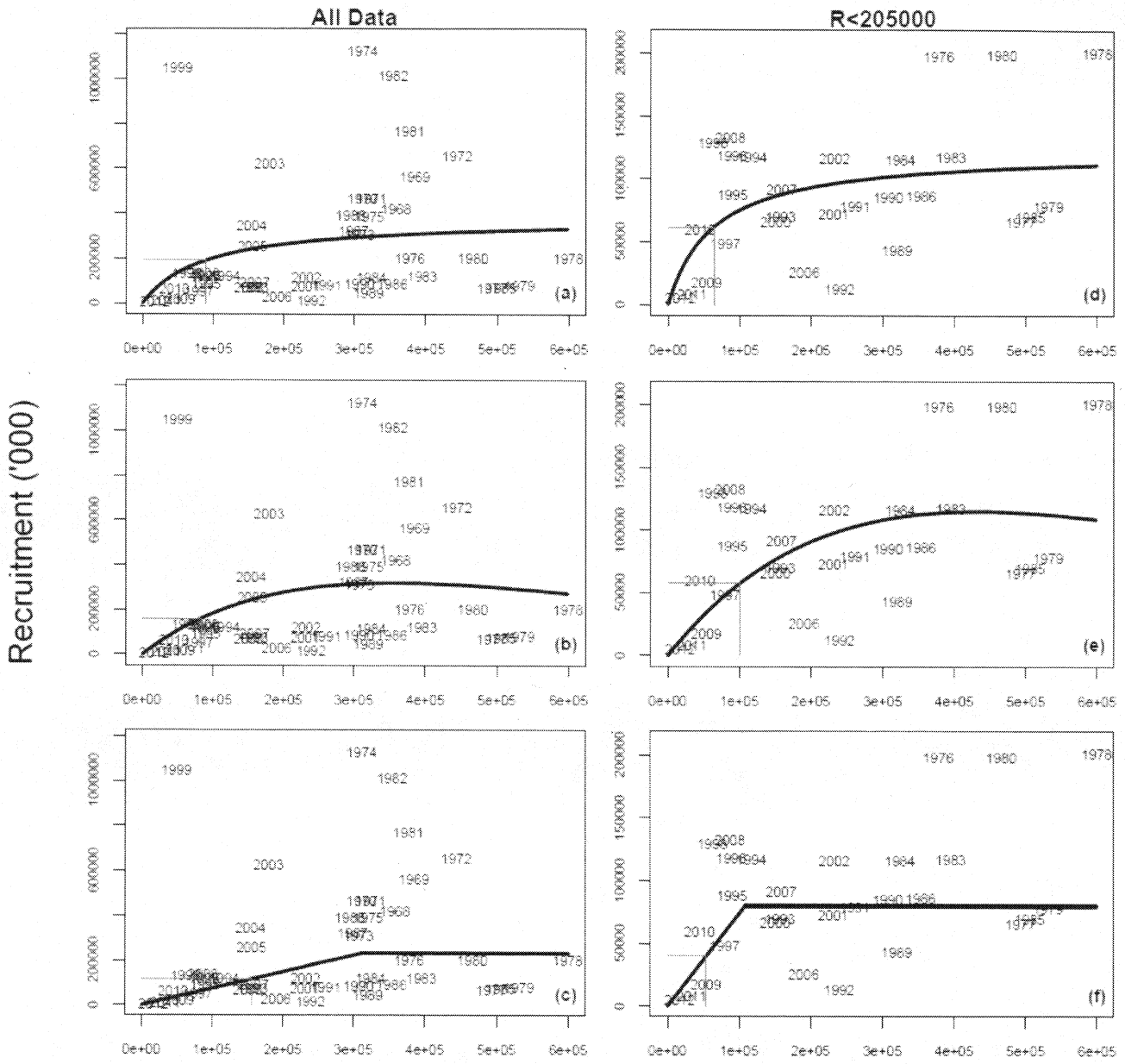
- use productivity information from stock-recruit relationship
- the lowest biomass from which there has been a recovery (Brec)
- 40%Bmsy

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SR relationship



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SR relationship

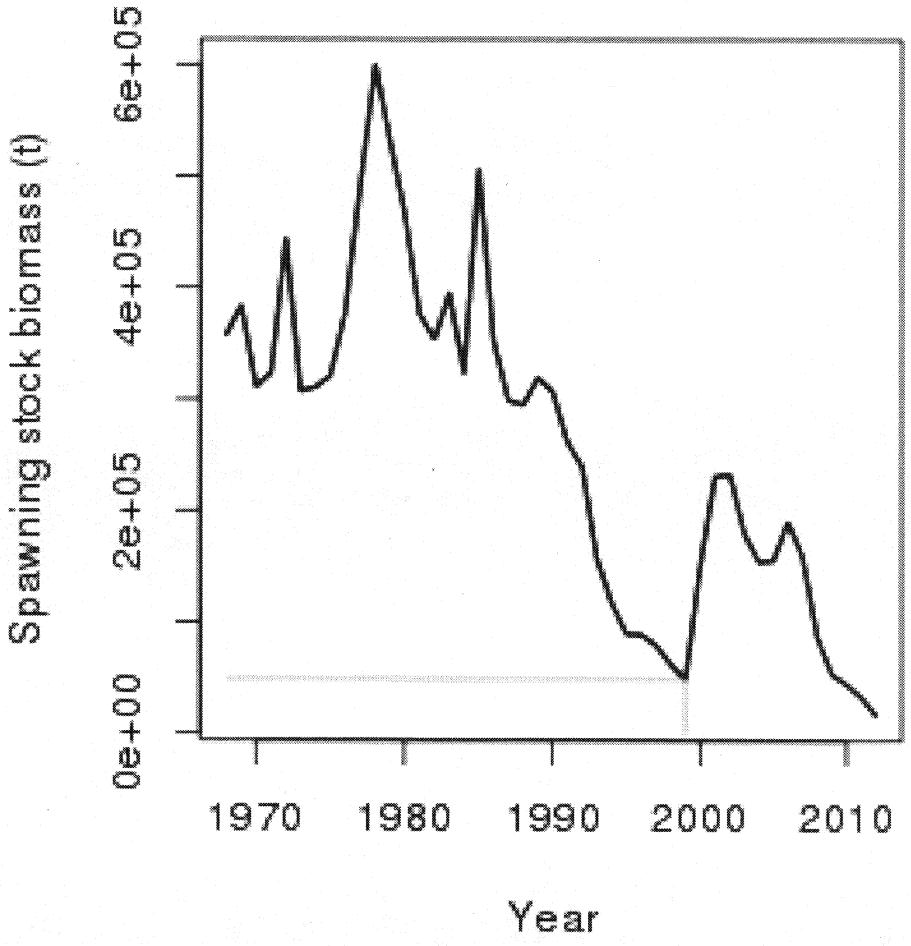
- « rule of thumb »: SSB donnant 50% du recrutement maximum
- Relation difficile à trouver pour grands recrutements

Model	All data	R<205 millions
Beverton-Holt	90,000 t	63,000 t
Ricker	83,000 t	101,000 t
Hockey-stick	156,000 t	54,000 t

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B recover

- Empirique
- Année = 1999 = année de gros recrutement !
- Brec pas une estimation conservative de Blim



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40% B_{msy}

- Utile quand relation S-R pas claire
- 40% B_{msy} comme estimation de Blim vient de la définition du cadre canadien pour l'Approche de Précaution (DFO 2006)
- Tiré F_{msy} dont $F_{40\%}$ est une approximation

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Conclusions

- Brec non recommandé
- Stock dans zone critique quel que soit le LRP choisi
- Mais pas de recommandation finale dans l'avis

- $F_{40\%}$?

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RÉSUMÉ DES PRODUITS DE RÉUNION

Information sur la réunion

Pour un traitement plus rapide, veuillez fournir l'information tel qu'indiqué (mot par mot) sur le calendrier des avis scientifiques disponible sur le site web du SCCS. Si l'information sur le calendrier est inexacte, prière d'informer votre coordonnateur du CAS/SCCS.

Titre de la réunion : Révision du cadre d'évaluation pour le maquereau bleu des sous-régions 3-4

Président(s) : Dominique Gascon

Date du début de la réunion (Année-Mois-Jour)**:** 2017-01-18

La réunion s'est tenue durant les mêmes dates représentées sur le calendrier d'avis scientifique **:** ☒ **Oui** ☐ **Non**

Si non, veuillez préciser :

Enjeux

Une réaction est-elle prévue par les intervenants ou les médias?

Problème/réaction prévue :
Non, aucun problème ou récation n'est prévu.

Si oui, svp élaborer et fournir l'information sur le statut de l'infocapsule, s'il y a lieu et communiquer avec votre conseiller en communications :

Commentaires du président (facultatif) :

Publications prévues

Énumérer chaque publication qu'on prévoit publier suite à la réunion. S'il n'y a pas assez d'espace sur ce formulaire, veuillez les inclure sur une feuille distincte.

Série de publication	**Titre provisoire** Inclure le numéro de document de travail s'il y a lieu (facultatif).	**Personnes ressources** CR : président(s); AS ou RS : pers.-ressource; DR : 1er et 2ième auteur(s).	**Date d'échéance** AS et RS : 8 semaines; DR et CR : 4 mois.
Compte rendu	Compte rendu de l'examen régional par des pairs portant sur la révision du cadre d'évaluation du maquereau bleu des sous-régions 3 et 4; 18-20 janvier 2017	Sonia Dubé	20 mai 2017
Document de recherche	Results of an informal survey of Canadian Atlantic mackerel commercial, recreational and bait fishers	Elisabeth Van Beveren	20 mai 2017
Document de recherche	Évaluation analytique du maquereau bleu (Scomber scombrus L.) des sous-régions 3-4 de l'OPANO: utilisation d'un modèle censuré pour prendre en compte les captures non-déclarées	Thomas Doniol-Volcroze	20 mai 20176
SVP Sélectionner			
SVP Sélectionner			
SVP Sélectionner			

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Série de publication	**Titre provisoire** Inclure le numéro de document de travail s'il y a lieu (facultatif).	**Personnes ressources** CR : président(s); AS ou RS : pers.-ressource; DR : 1er et 2ième auteur(s).	**Date d'échéance** AS et RS : 8 semaines; DR et CR : 4 mois.
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Mackerel Framework Meeting Day 2 Date Jan 19/17

Start ~ Analyses Overnight

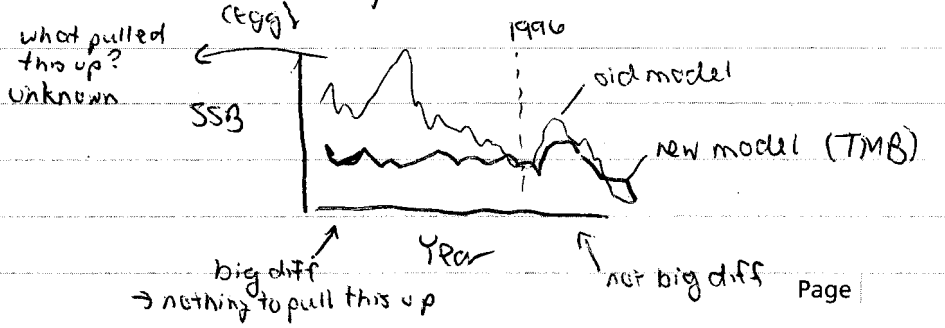
1. 1st part of time-series → Eggs

Thomas [redacted] - recalls egg collector from back of boat
- does this group want to explore two diff. periods of time
- possible some of surveys done from back, some from side, memory unclear

Dom - many things can affect gear
- if huge diff between ships, we can look at that

Thomas - we can't explain high values
- if time series is cut in 2, easier to explain
- can't just chop w/o justification, send wrong message

Thomas - M, save for later
- Elizabeth worked on UL (upper limit)
→ 1996 - only and M matrix as 2014



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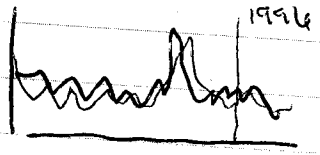
- only recruitment new not F, could be same

Q [redacted] - at least the new model pattern can be explained

Dom - Old model did trad way, addy up the catches

Thomas - true, but we let model select ~~F~~ ...

* - models agree in recruitment

R 

very similar

- model differences - ICA is a black box

[redacted] - weird, catch & R same, N somehy major is not coherent

Martin - can we compare w old data on SSB directly?

Thomas - but neither use old egg index data
- we suggest we use all avail data on eggs
- F so weak back than it is a model question

[redacted] - agree w Matthieu. While we understand what TMB is doing, still can't explain

- can Elizabeth keep trying to make it work?

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Date

Thomas- goal of this meeting is to agree on structure

Phone - ICA starts in 2004
[redacted] - no qualms on biomass

Thomas - separation data may have more impact than we think
- an exploration was done in 2010 w EPA, unpublished
- not 1st time we have changed model, not criticizing old model

[redacted] - not talking about future use - we need to know why things have changed
- if we get w new model, egg index is no good (in past)

Thomas - as long as you use whole egg index, the issue is fixed. no one is saying use the new model w truncated egg data

[redacted] - shouldn't we find the new spawn ground first? why hasn't this happened in the past 3 years

Thomas - I don't think we dropped ball, 2015 on 2016, we didn't find anything
- most guided by industry
- we are monitor the main spawn ground and eggs / stock ↓

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- model discussion is to make sense of past
- doesn't mean more can't be done in future

Martin- throughout career many attempts usually at request of industry, but not finds any signs

[redacted] - but by #s missing something major

Thomas- we are trying to patch hole and would take advice from industry on where to go next

[redacted] this summer only my landings

Thomas- sampling holes yes but new model is attempt to make better sense of past

[redacted] - you compared ICA & TMB. Data were all the same. Big diffs esp of F early in time series, egg index?

Thomas- prior to 2012 no analytical model so abundance index was absolute value, then egg index became an input into model for adjustment
- my conclusion ICA worked as VPA prior to ~~[illegible]~~ 2013 then SCA forward
  ↳ may explain model differences
  → comparing models thus doesn't have sense

[redacted] - pencil MKL seen in White Bay
  ↳ reason why sampling done there

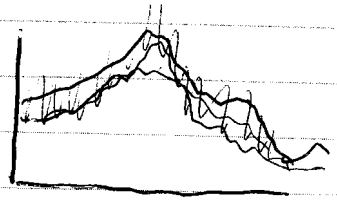
[redacted] - VPA is part of ICA so why isn't

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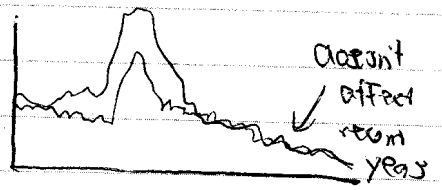
Date

TMB not producing this ↑ same catch data?
Are there big residuals around TMB catch?
Thomas - model doesn't estimate catch
- recall the "new" model is uncensored and we don't recommend its use

Dom - lets go to next request
Thomas - sensitivity on reported catches
- ~~sensitivity~~ 0.5 to 1.5 catch
- gray oe limits
- ceiling does have impact
- not on general trajectory
- as ceiling (UL) raised, multiple spots keep increasing to hit ceiling (times when undetect. catch ↑ important)
- only way model can explain rate that things are changing



Catch → Yr



SSB / R Yr

- our choice of UL does matter
- use as much true data as possible
- 1.5x UL does reduce changes
- have you tried raising UL so high it never bumps?

Elizabeth - I tried, 3, 4x and it keeps happening

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Thomas - we can always update later
- ceiling has to stop somewhere
[redacted] - if stock interpretation is robust when UL ↑↑ then so much the better?
Thomas - but could do the same for M
- value?
[redacted] - F at c_x? (fairly constant)
Thomas - changes in comp. of catch
- doesn't change mort @ age

- should we include some American catch?
Martin - proportions are unknown
[redacted] - so if F at age stays same, why is SSB + catch ↑↑ when UL ↑↑?
Thomas - it's the egg index,
[redacted], so the attempts at model to accommodate ↑↑ eggs in past mean that SSB ↑↑ and thus catch ↑↑
Thomas - yes, for certain years only, other years are ok
Dom - so we have a fairly sig request to include foreign data
- I have a question - do we have uncertainty
Eliz - we have observation error
Dom - so uncertainty is prop?
[redacted] could look @ estimations

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Date



Thomas - more flex to see high values
[redacted] - can we look @ F at age, why isn't it same at 6-10?
Elizabeth - may be typo, not sure what happened
[redacted] - why not full recruit avant de 8 ans?
Thomas - this is good @
[redacted] - important change in 2000 → seines
- can't just be all 8-10
Elizabeth - NFLD, this was discussed
Dan - 58-66 parameters, its a lot of estimates
[redacted] - geor needs to be taken into account
Thomas - for last 3 years, this is estimate. We can do this, as you say it is unrealistic?
[redacted] - what about backward VPA (phone)
Thomas, in 2014, we had 1 value for 3 ~~yrs~~ ages
so it is similar in the old model too
- but that's the SCA part not VPA part
[redacted] - so selectivity is constant
- not estimating 500 parameters
- can do random walk over ages only
- can try this if you want
Thomas - I fear this may catch up some of the undecl catches (allowing selectivity to vary)
- can we just freeze more ages
[redacted] ← I ~~fear~~
[redacted] - why doesn't F change as SSB does??
- And F structure doesn't make sense to me

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Dom - does mort ↑ age?
Martin - I don't agree. Used to be a lot of 12-13 year old fish in 1980s
~~Dave~~ [redacted] - I don't believe model, need to go back to biology
Thomas - talks about partial recruitment in 2014...
- VPA may or may not explain this
- not full until age 7?
Dom - mort @ age / age of recruitment
- always an avg



[redacted] - can we bracket periods of selectivity when things are similar?
Elizabeth - tried and discarded
- 2000 when IVL entered
- but very arbitrary
Thomas - We can inform the model. If fully recruit @ 5 or 6, then make fixed + everyone happy. Won't address / change over time
[redacted] - do from age 4 (accord to 2014
Martin - age 5
[redacted] - What [redacted] is say is get the vulnerability matrix from VPA(?)
~~Thomas~~ -
Elizabeth - in doc I fixed it as 6, using 5 page 6 as a

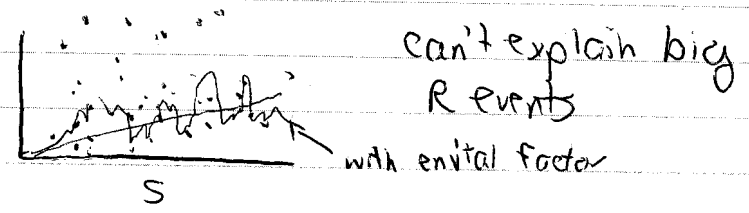
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↓ change in ~~eg~~ objective function (likelihood of model)

Thomas - we came to a consensus on break we will fix selectivity @ 5. Model does fit better @ 8, but it highlights something is going on we don't understand. we will run today. And try to find a way to estimate selectivity over time, but don't want to do too many parameters
- if fish recruit faster - explore and present in March

Thomas, now S-R
- Beverton-Holt



- envtal factor from earlier work, eg temp

- Q- Envtal Δ but against biomass? Why not graphed against time? Mo

- How do you project in an envtal signal?
- can put us in a difficult position for management. Proxy methods

Thomas - 2 Qs, a) should we use S-R and b) should we include envtal factor

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Envtal factor may be premature. But may not make much change in model
- when Stock SSB ↓↓↓, recruitment is lower but extremes can still occur, just less often
[redacted] - can also simulate R empirically - pull from time blocks of existing data based on projected SSB
- and why not a Ricker?
Thomas - could work for projections but how do we do a hindcast model
[redacted] - same as for herring
- either a probabilistic problem or basal noise (?). How lucky will we be?
Martin - we will have some news in March
[redacted] - shotgun blast. 2 suggestions - break into groups or do it probabilistically. I am old school VPA so I don't worry about hindcast models. I wrote a textbook chapter about this?
[redacted] - w/o it we don't get MSY
[redacted] - all assumptions on MSY are broken
Thomas - we can't pick on Ref Points until we have picked Ref
[redacted] - I personally would use free parameters and not use S-R here or R
Elizabeth - random walk didn't give good objective fxn tho, maybe doesn't matter
Thomas - so is consensus to drop S-R and envtal info?
Martin - seems to be

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Thomas - RPs picked in March
- Ottawa needed clearer recommendation
- I have presentation on this
- ~~Post~~

Dom - talk about Mort until Break

Thom - some exploratory runs at lunch
- at outset, S-R → lower, we need to know why. Not sure why

Dom - either we do it now or wait until March

[redacted] - R can be generated as needed
- really small
- don't see advantage of random generation of R b/c the model can already do this
- I think B/H has some value and enut value has some
- do 5 year projection ± SSB varying using PCA values avg'd over last 5y
- we are often criticized by not having current conditions
- SSB still predicted from whole time series → requires very little change in current model

~~THOMAS~~ -

[redacted] - I see [redacted] s-t projections but how do you do long-term?

Elizabeth - I tried a few options, we can revisit these

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RP = reference point

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[redacted] I don't see a strong S-R relationship here. To go MSY route. we aren't relying on it heavily at this point b/c of deviations

Elizabeth - doesn't influence selection of RP

Thomas - do need it for MSY-based RPs though - question of internal consistency

Elizabeth - haven't re-run all R options on the new models (5 options, multiple error structures)

[redacted] - are you saying MSY-based RPs are no go?

[redacted] - not exactly, just if we use it once do we have to keep using it

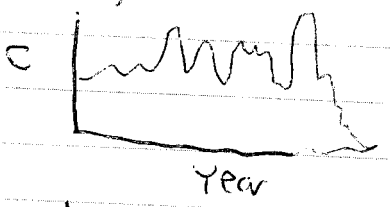
[redacted] - save for RP discussion

Dom - Natural mortality, what have we done?

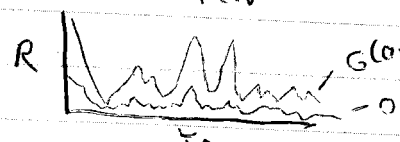
Elizabeth - fixed @ 0.2

[redacted] - can you show us options

Thomas:

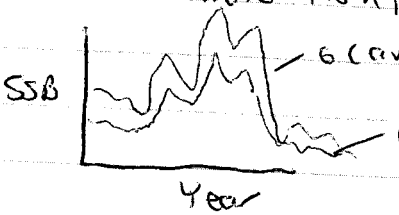


(all look same)
M = 0.2, 0.244,
Gislason, Gislason (avg)
across years



different

Using Gislason - creates + kills more fish, but catch stays same



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- at 2014 meeting M values go to around 0.2
  ↳ 0.35 to 0.5 @ age 1, then → 0.2
- more plausible, biologically speaking
- this is temporary → what do we use?
- decision is very important
- we have a slew of potential methods

Dom - we need to fix the lacks
- [redacted] had reasons for his choice

Thomas - we have potential to explore
- we can use Gislason. Young fish do die more
[redacted] - logic is sound, not all docs are coherent [was on most doc?]
- I don't think the value we pick will matter

Thomas - I think it does matter for any given year or cohort

Elizabeth - no error but a PE error may compensate

Dom - we need more documentation

Thomas - In this document it says deal with 1 or other

[redacted] - if we use Gislason we need more data

[redacted] - Gislason never meant to do this over year and year, found correlations across species yearly basis

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[redacted] - so if it is retrospective, can we use recent data?

Thomas - to use it properly -- not enough recent year data. Need to see full disappearance of cohort. Gislason says 10 years but we know fish older than 10 have been caught. 0.3 is excessive. I will recalculate, if you wish, the value. All ↑ will do is ↑ Biomass. I prefer Gislason. So fish can reach 14a if not caught.

Dom - So we will use one mortality vector. But what years?

Thomas - Most recent years are most pertinent → 1999 cohort

Martin - we can look at 2014 meeting minutes

Reference Points

- tried 3 LRPs: 40% B_{msy}, B_{rec}, eg 1999 and something from the S-R relationship - $B_{50\%rec}$
- Bev-Holt, Ricker, hockey-stick
- w/o and w extreme data
- better fit w/o extreme data

- B_{rec} is not a conservative estimate of B_{lim}
- 40% B_{msy} useful when S-R is not clear & fits PA approach
- F

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- document was 1st attempt
- don't recommend Brec
- regardless of LRP the stock was critical
- no final recommendation
- NCR asked us to come up w a choice

[redacted] - we shouldn't be afraid to say no

Thomas -

[redacted] - I would suggest a proxy method

Thomas - better to do now before seg. method in March

[redacted]: presentation suggests 40% Bmsy

[redacted]: we need ref points to know when we get out of hole. Or plan for when it's going to be

Thomas: $F_{40\%}$ - ~~F~~ F → drives Biomass to 40% of $B_{F=0}$

[redacted] - F 40% and match Biomass is most widely used

Eliz - we don't need S-R to calculate yield per recruit proxie

Thomas - I do not agree that this should → March

[redacted] - we need Ref Points

Martin - need Fish Management input

[redacted] - I am more familar with range of Ref Points

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-are we moving too fast? Other types of RPs for other small pelagics w ↑↑ and ↓↓ Recruitment

Thomas: my understanding is that we had the discussion and just need to pick
-we shouldn't look at data + then pick

[redacted]. Does $F_{40\%}$ apply to all cps
[redacted]. In N.E.U.S. → Clark publication

Thomas - can also compare RPs wrt sensitivity

Eliza - some things I have done → suggest don't use MSY

Dom - so we have options when B_{ref} + S-R not ideal. We are fully back on prudence

Thomas - are we trying to focus

Dom → looking for consensus
Martin → next few years $F_{40\%}$
Dom → OK
→ Conclusions so [redacted] can add to report

[redacted] how to come up w projections?

Thomas - I think the most pertinent point is how → lead to advice
what we need to estimate
↳ important to communicate graph

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So it is clear TAC is not decl + uncld catch confusion
→ we could use ...

[redacted] - its not possible to reject ...

Thomas - if we don't use a model in uncld catch ...
- the advice has to be totally clear

[redacted] so when we use this in cod, it is regional only, recatch. This is harder scenario

Thomas - if provinces all record catches, it will take time but data will catch up

[redacted] - urgency to push for monitoring
- if between now + AMEC meet, it is our opportunity

Thomas - agree effort in this model is not reason to not move forward. This is a patch fix

[redacted] ?

Thomas - haven't thought abt this, focused on uncld. catch. and not a multiplier
- we will need to figure out how to project uncld in future
- not so big deal if only 2 year projection

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Dom- we agreed on Rand selectivity
- important to see △ at age
- every 2 year assessment?

[redacted] - once again, recommendation?

Thomas- in 2J4- F was low prior to 1992
- lead to recommendation that was weak
- stock was critical

[redacted] maybe objective is rebuild by?

[redacted] - last time, model gave bad F, management ignored, recommended TAC of 800, not used for 2 yrs

Dom- but our situation is better

[redacted] - we don't usually give specific recs like last time

Thomas- I would propose a slew of values and management picks

Dom- that's what we did in cod

Thomas- one should be 8% F (1969-1992) in which case we are stuck

[redacted] - last resort approaches is 8%

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[redacted] - in respect to BOOT, thats 1 boat in 10 d, 3500 harvest.

Thomas - they were trying to emphasize state of stock

Dom - we will need to see model

Thomas - tmmw prepare slide of consensus

Dom - [redacted] will do this

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Marentette, Julie

From: Krohn, Martha
Sent: January-20-17 11:30 AM
To: Marentette, Julie; Duprey, Nicholas
Subject: RE: Invitation - Révision du cadre d'évaluation pour le maquereau bleu des sous-régions 3 et 4 / Assessment Framework for Subareas 3 & 4 Atlantic Mackerel

Can't wait to hear more about it! I have no doubt others will be interested too.
Thanks!

-----Original Message-----
From: Marentette, Julie
Sent: January-20-17 11:28 AM
To: Duprey, Nicholas; Krohn, Martha
Subject: RE: Invitation - Révision du cadre d'évaluation pour le maquereau bleu des sous-régions 3 et 4 / Assessment Framework for Subareas 3 & 4 Atlantic Mackerel

I can schedule a full FPS debrief for next week - model will be kept with some modifications, and numerous projections will be made for March.

From: Duprey, Nicholas
Sent: January 18, 2017 21:57
To: Marentette, Julie; Krohn, Martha
Cc: Krohn, Martha
Subject: RE: Invitation - Révision du cadre d'évaluation pour le maquereau bleu des sous-régions 3 et 4 / Assessment Framework for Subareas 3 & 4 Atlantic Mackerel

Yeah I was hoping that would be acknowledged. It seems unrealistically high, although I suppose it is actually possible with a schooling fish. But would likely crash the population over a couple years.

One thing to consider is how to frame the advice/predictions/forecasts/harvest advice (at the next meeting where advice will need to be formulated) where there isn't huge confidence in the absolute value of the models output (SSB or removal in kilos and resulting harvest rate). This has been a critic of the model for mackerel in the past where the model results indicated SSB levels that were below or at current landings.

Did the group have any ideas on how to produce stock advice or risks associated with different TACs if they aren't confident in the absolute bale of the output SSBs?
Sounds like a really good meeting
Nick

Nicholas Duprey, M.Sc.

Senior Science Advisor, Fish Population Science Fisheries and Oceans Canada / Government of Canada
Nicholas.Duprey@dfo-mpo.gc.ca / Tel : 250-816-9709

Conseiller scientifique, Sciences des populations halieutiques Pêches et Océans Canada / Gouvernement du Canada
Nicholas.Duprey@dfo-mpo.gc.ca / Tél : 250-816-9709

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From: Marentette, Julie
Sent: January 18, 2017 2:22 PM
To: Duprey, Nicholas; Krohn, Martha
Subject: RE: Invitation - Révision du cadre d'évaluation pour le maquereau bleu des sous-régions 3 et 4 / Assessment Framework for Subareas 3 & 4 Atlantic Mackerel

This afternoon, there was general acknowledgement that the ~64% exploitation rate produced by the new model is still unrealistic. Not sure where to go from that?

From: Marentette, Julie
Sent: January 18, 2017 11:39
To: Duprey, Nicholas; Krohn, Martha
Subject: RE: Invitation - Révision du cadre d'évaluation pour le maquereau bleu des sous-régions 3 et 4 / Assessment Framework for Subareas 3 & 4 Atlantic Mackerel

Essentially yes, and they describe this impossibility as a reason why the model lacked credibility. The censored model improved with survey data is an improvement but as per this am's discusson there are likely still serious issues with underestimates of unreported catches!

From: Duprey, Nicholas
Sent: January 18, 2017 09:41
To: Marentette, Julie; Krohn, Martha
Subject: RE: Invitation - Révision du cadre d'évaluation pour le maquereau bleu des sous-régions 3 et 4 / Assessment Framework for Subareas 3 & 4 Atlantic Mackerel

Thanks Julie,
This is looking interesting.

I have a question about figure 8 in the PDF. Is this figure saying that in ~2009 and 2010 the old model estimates that harvest equalled 80% of the SSB? And that the new censored and uncensored models had a harvest of ~60% of the SSB in those years? This seems very high and appear to have been high >35-40% for several years around 2010. Does the group feel this is likely "real" and that harvesters (commercial, bait, rec, etc) actually were harvesting 60-80% of the mackerel in Area 3-4 in those years?

Thanks so much for sharing...
Nick

Nicholas Duprey, M.Sc.

Senior Science Advisor, Fish Population Science Fisheries and Oceans Canada / Government of Canada
Nicholas.Duprey@dfo-mpo.gc.ca<mailto:Nicholas.Duprey@dfo-mpo.gc.ca> / Tel : 250-816-9709

Conseiller scientifique, Sciences des populations halieutiques Pêches et Océans Canada / Gouvernement du Canada
Nicholas.Duprey@dfo-mpo.gc.ca<mailto:Nicholas.Duprey@dfo-mpo.gc.ca> / Tél : 250-816-9709

From: Marentette, Julie
Sent: 2017–January-17 10:54 PM
To: Duprey, Nicholas; Krohn, Martha
Subject: FW: Invitation - Révision du cadre d'évaluation pour le maquereau bleu des sous-régions 3 et 4 / Assessment Framework for Subareas 3 & 4 Atlantic Mackerel

For your interest.

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Nick, Figure 7 of the pdf in French shows the comparison of the old and new models. They seem to point to very similar conclusions on the current status of the SSB.

From: Cyr, Charley
Sent: January 17, 2017 09:17
To: Dominique Robert; [redacted] - NOAA Federal; [redacted]; Marentette, Julie; Benchabane Samir (DAPPA) (Québec); [redacted] North of Smokey - Inverness South Fishermen's Association; Rivierre, Antoine; [redacted]
Cc: Doniol-Valcroze, Thomas; Castonguay, Martin; Dominique Gascon
Subject: RE: Invitation - Révision du cadre d'évaluation pour le maquereau bleu des sous-régions 3 et 4 / Assessment Framework for Subareas 3 & 4 Atlantic Mackerel Bonjour,

En prévision de la rencontre de demain, voici quelques documents de travail.

Hi,
Please find enclosed two working documents for the meeting on mackerel.

Charley Cyr
Directeur
DAISS
(418) 775-0825
Charley.Cyr@dfo-mpo.gc.ca<mailto:Charley.Cyr@dfo-mpo.gc.ca>

De : Cyr, Charley
Envoyé : 12 janvier 2017 10:57
À : Dominique Robert; [redacted] - NOAA Federal'; [redacted]; Marentette, Julie; 'Benchabane Samir (DAPPA) (Québec)'; [redacted] 'North of Smokey - Inverness South Fishermen's Association'; Rivierre, Antoine; [redacted]
Cc : Doniol-Valcroze, Thomas; Castonguay, Martin; Dominique Gascon Objet : RE: Invitation - Révision du cadre d'évaluation pour le maquereau bleu des sous-régions 3 et 4 / Assessment Framework for Subareas 3 & 4 Atlantic Mackerel

Bonjour,

Vous trouverez ci-joint l'ordre du jour pour la réunion sur la révision du cadre d'évaluation pour le maquereau bleu des sous-régions 3 et 4. Un document de travail devrait suivre dans les prochains jours.

Hi,

Please find enclosed the agenda for the Assessment Framework meeting for Subareas 3&4 Atlantic Mackerel. A working paper should follows in the next few days.

Charley Cyr
Directeur
DAISS
(418) 775-0825
Charley.Cyr@dfo-mpo.gc.ca<mailto:Charley.Cyr@dfo-mpo.gc.ca>

De : Cyr, Charley

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Envoyé : 13 décembre 2016 15:43
Cc : de Lafontaine, Yves
Objet : Invitation - Révision du cadre d'évaluation pour le maquereau bleu des sous-régions 3 et 4 / Assessment Framework for Subareas 3 & 4 Atlantic Mackerel

English follow

Bonjour,

Le centre des avis scientifiques (CAS) de la région du Québec de Pêches et Océans Canada (MPO) tiendra une revue par les pairs régionale intitulée «Révision du cadre d'évaluation du stock de maquereau bleu des sous-régions 3 et 4». La réunion aura lieu du 18 au 20 janvier 2017 à la salle A582 à l'institut Maurice-Lamontagne à Mont-Joli, Québec. La rencontre débutera à 9 h le 18 janvier et devrait se terminer vers 12 h le 20 janvier. Le cadre de référence pour cette revue est présenté en annexe.

La réunion consistera en un examen par les pairs du cadre d'évaluation pour le maquereau bleu des sous régions 3 et 4. L'objectif principal sera d'examiner les modèles pour suivre l'état des stocks et la productivité pour cette espèce. Une réunion d'évaluation du stock devrait avoir lieu plus tard en mars 2017.

Ces réunions se déroulent habituellement en français. Cependant, un service d'interprétation simultanée sera disponible pour cette revue.

Je vous saurais gré de bien vouloir confirmer votre présence à cette réunion au plus tard le vendredi 6 janvier 2017 avec moi par courriel à charley.cyr@dfo-mpo.gc.ca<mailto:charley.cyr@dfo-mpo.gc.ca>, par téléphonie (418) 775-0825 ou par fax (418) 775-0740. Pour toutes questions ou commentaires, n'hésitez pas à me contacter directement.

Cordialement,
Dear Invitee,

The Fisheries and Oceans Canada (DFO) Quebec Region Centre for Science Advice (CSA) is convening a peer review meeting entitled "Review of the Assessment Framework for the Atlantic Mackerel Stock for the Subareas 3 and 4". The meeting is scheduled for January 18-20, 2017, and will be held in Room A582 at the Maurice-Lamontagne Institute in Mont-Joli, Quebec. The meeting is to begin at 9:00 am on Wednesday, January 18, and is to adjourn by 12:00 am on January 20. The Terms of Reference for this review is attached to this invitation.

The meeting will be peer review of a science framework of the subareas 3 and 4 Atlantic Mackerel. The main objective will be to review Model(s) to Monitor Stock Status and Productivity for the species. A stock assessment meeting would occur later in March 2017.

Discussions usually take place in French. However, a service of simultaneous translation will be available for this review.

We would appreciate if you would confirm your attendance for this meeting by Friday, January 6, 2017, with Charley Cyr at Charley.Cyr@dfo-mpo.gc.ca<mailto:Charley.Cyr@dfo-mpo.gc.ca>; (Tel) 418-775-0825; or (Fax) 418-775-0740. For any questions or comments, please feel free to contact me directly.

Sincerely,

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Charley Cyr

Directeur, Avis, Informations et soutien scientifiques Direction régionale des Sciences Pêches et Océans Canada / Gouvernement du Canada charley.cyr@dfo-mpo.gc.ca<mailto:charley.cyr@dfo-mpo.gc.ca> / Tél.: 418-775-0825

Director, Scientific Advices, Informations and Support Science Regional Branch Fisheries and Oceans Canada / Government of Canada Charley.cyr@dfo-mpo.gc.ca<mailto:Charley.cyr@dfo-mpo.gc.ca> / Tel.: 418-775-0825

[cid:image001.png@01D0A929.74165BC0]

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Framework
Mackerel Meeting Day 3 Date Jan 20/17

Main Conclusions

Thomas - no scientific advice to come out of this
- is the actual use of TIMB
- we want to verify statistical validity of model

[redacted] - I think this is excellent work, open source, science advantage. I have not read the code but the random / fixed data is now so much easier to work with

Dom - no questioning of model - just slight modifications.

Thomas - we can go ahead + assess the stock

Thomas - Uncleed data if important, do we approve censored approach

[redacted] - I agree, totally valid

[redacted] - what happens if we do / don't censor

Thomas - in March, important to show differnce

Dom - we don't want to ignore uncleed catches

000371

Date

- no one is objective
[redacted] - American data - I know some imports
[redacted] - approach is valid
- if you have a constant prop. of unreported catch, can the model detect this?
[redacted] we would like to see raw simulation results
- and test different reporting scenarios
[redacted] - in US we often push models to see fails, useful to test
Thomas - we will try to incorporate this
[redacted] - this new data, I want to work w Elizabeth on this
Thomas - can constantly update, for today not worry abt exact values, eg bycatch
Q [redacted] we should be presenting several scenarios
- non-reported catch issue, real need to get that info is underscored
Thomas - as model is sensitive to VL, no way to say what is best. No matter how many... model has had time creating that limit..
Q - it looks as though fishing effort - an approach that would deal w bait needs of other fishers would help. Effort in crab + lobster zones, so doesn't help to use constant value for unded fishers
Thomas - this is the basis of the current approach
- ½ the need for bait prior to 1990
- focus on eval of diff provinces needs to be done

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- this will need cooperation of industry and management

Dom- I think there is a consensus for need of best data + continue diggig. This is a continuous recommendation

Q - this is the first time I have seen meety w figus - I am industry. Easy to make model but hard to find right figures. We need to validate w people on the front line. Striped bass + MKL caught together. F factor will vary a lot. Smaller MKL more discards. Not sure if min size is good. Does US have min size - I used 5t MKL myself, and 10k lobster fishers.

Thomas - This model will allow us to use right figures later on

[redacted] [redacted] talked abt rejects. I have a simple plan for DFO to enforce. DFO could regulate the distance of bars used to strip fish from hooks. Easy for officers to check.

Dom- Please bring this to advisory meety. Other specialize in fishery technology / AMEC

Q- MKL logbook not even used but available

Dom- UL has to be estimate, model makes bycatch estimate,

Thomas - we will never know exact value of UL [redacted] we have limited data and it affects model outputs. This shows the data

are ↑↑ important - we have to be very careful on our interpret. and what is sent to management

[redacted] model has to be informed. There may be more use if model can predict the egg survey both to help cross-validate

Thomas - M to be recalculated for recent period or pre- Gislason (M_{1-3} > M_{adult} = ~0.2)
- Full Recruitment (age fixed at) - 5
- relation S-R - B-H
- Envtal factors

Thomas (in resp to [redacted] (Amulet)) - R at age 4-5 makes sense, model pick it can do all kinds of things

[redacted] - I believe that have F_y separate will settle the issue ([redacted] agrees)

Thomas - no problem w this, always residuals though

[redacted] - worth looking into

[redacted] - lack of info on objective fxn

Dom - we need to pick between 2 formulations

[redacted] - if problem w selectivity, won't exactly match catch-at-age

Thomas - I need clarification. We keep constraint of selectivity on age but let selectivity vary by year?

[redacted] - most assessment by age

Dom - end up w a dome?

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[redacted] are we deciding to flat-top or done?
[redacted] - could make done with a minimum high level, or bimodal

done vs flat top

[redacted] in 1990s, gillnet only half what it is now, so not flat-top now

Thomas - is done reality?
Dom - need to fix some?
[redacted] if really is natural shape of curve, may evolve over time, maybe no restrictions
Dom - we are going back. Major Qs in March
[redacted] - don't want to show up in March w/ other too many models
Thomas - if we do this random walk + get sensible results, we can present this in March
Dom - we had agree to fix. I'd rather go w/ this one and use the other as validation
Thomas - S-R, are we keeping envital factor?
[redacted] - not decided
[redacted] - what were the advantages?
Thomas - has very little impact. Comes from LRP documents
Elizabeth - we didn't discuss options, no big diffs? What do we do w/ error structures S-R?
[redacted] - can we see resids w/o + w/ envital? I know effects are minimal. Not enough info but if diagnostics same doesn't mat.

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Thomas - do we feel Biomass has big role?
[redacted] - is the model influenced by other parameter
Thomas - alternative is to not put it in
[redacted] - role of envtal factors is weak
[redacted] - stock requires 8 pulses, we spend a lot of time on bkdg noise. You can use whatever you want
Dom - no one objects strongly + envt helps with optics. Accept model as seen

Thomas - eventual future devts
- explore not for mack (except American catches)
- adjust egg index not SSB
- Lorenzen M
[redacted] [redacted] - why?
Thomas - egg index linked to SSB indirectly
[redacted] - why does it matter if not Δ # of parameters
[redacted] - the issue is that SSB is derived from other info, extra step, less precise info, ↑ uncertainty in whole model
[redacted] - so you get obs vs pred eggs
Thomas - I don't expect major Δ
[redacted] - is commercial sample biased?
Thomas - could be
[redacted] - effects weight on age which can overestimate (?) dominate catch
Dom - this is a new problem. can't be resolved quickly, no data

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Thomas: Reference Points - $F_{40\%}$
- ↳ no need to have MSY premise
- ↳ nor stray S-R relationship
- ↳ previously recommended

Projections: many F scenarios for comparison

[redacted] - does DFO know ↑↑ small fish being seen? last year

Thomas - Yes we have been told
we need quantitative proof
Easier for RF than MKL

[redacted] - Fogo Island genetics, Greenland MKL
good + bad fish stocks easily distinguished

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Cyr, Charley

De: Doniol-Valcroze, Thomas
Envoyé: 23 janvier 2017 10:16
À: Gosselin, Serge
Cc: Cyr, Charley
Objet: mackerel framework

The assessment framework for Atlantic mackerel in subareas 3 and 4 was reviewed:

- In 2012 and 2014, the abundance of Atlantic mackerel had been assessed using a software that has become obsolete and no longer works on recent systems. In addition, this previous model could not account for uncertainty due to unrecorded catches.

- The results of an online survey of fishers and an analysis of bait needs were presented, in order to estimate an upper limit for unrecorded catches. Based on presented evidence, the committee agreed that total catches could represent 150% to 200% of recorded catches.

- A new, custom-built model was proposed to assess mackerel stock status and productivity. This "censored" model includes an estimation of unrecorded catches and therefore better estimates spawning stock biomass. Based on model performance and diagnostics, this model was approved as the new analytical framework for Atlantic mackerel.

- Based on the lack of a clear stock-recruitment relationship, the Lower Reference Point was chosen as 40% of Bmsy where Bmsy is estimated from Fmsy, which in turn is assumed to be F40%, as suggested by the Canadian Precautionary Approach framework.

Thomas Doniol-Valcroze, PhD
Biologiste en sciences aquatiques | Aquatic Science Biologist
Direction des Sciences Pélagiques et des Écosystèmes | Pelagic and Ecosystems Sciences Branch
Pêches et Océans Canada | Fisheries and Oceans Canada
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Cyr, Charley

De: de Lafontaine, Yves
Envoyé: 26 janvier 2017 22:13
À: Cyr, Charley; Castonguay, Martin
Cc: Gilbert, Michel
Objet: RE: Réunion Maquereau

Merci à tous,

Le SMA et la DG-Sciences en ont reçu copie.

Yves de Lafontaine

Directeur, Direction régionale des Sciences
Pêches et Océans Canada / Gouvernement du Canada
Yves.delafontaine@dfo-mpo.gc.ca Tél. : 418-775-0555 / tél. cell. : [redacted]

Director, Sciences regional directorate
Fisheries and Oceans Canada / Government of Canada
Yves.delafontaine@dfo-mpo.gc.ca Tel : 418-775-0555 / Cel. : [redacted]

Ma langue, une question de respect / My language, a matter of respect

De : Cyr, Charley
Envoyé : 26 janvier 2017 14:08
À : de Lafontaine, Yves <Yves.deLafontaine@dfo-mpo.gc.ca>; Castonguay, Martin <Martin.Castonguay@dfo-mpo.gc.ca>
Cc : Gilbert, Michel <Michel.Gilbert@dfo-mpo.gc.ca>
Objet : RE: Réunion Maquereau

Yves,

Voici un memo produit à partir de l'information transmise par Thomas.

J'ai pris le modèle soumis par la national comme exemple.

Charley Cyr
Directeur
DAISS
(418) 775-0825
Charley.Cyr@dfo-mpo.gc.ca

De : de Lafontaine, Yves
Envoyé : 26 janvier 2017 07:50

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À : Castonguay, Martin; Cyr, Charley
Objet : Réunion Maquereau

Bonjour

Je ne sais pas lequel de vous deux avait fait l'appel de la réunion du cadre de référence du maquereau tenue à l'IML la semaine dernière, mais il serait important de produire, comme pour les autres rencontres, un résumé (w page) des faits saillants de la rencontre afin de l'acheminer au SMA. Votre résumé pour la fin de la journée sera attendu.

Merci

Envoyé de mon smartphone BlackBerry 10 sur le réseau Bell.

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20XX-XXX-XXXXX

MEMORANDUM FOR THE DEPUTY MINISTER

REVIEW OF THE ASSESSMENT FRAMEWORK FOR ATLANTIC MACKEREL IN SUBAREAS 3 AND 4
(For Information)

SUMMARY

The Review of the Assessment Framework for Atlantic mackerel in subareas 3 and 4 took place on January 18-20, 2017 in Mont-Joli, Québec. Participants from NOAA, Academia, DFO Sciences and Fisheries management, and Industry attended the meeting.

A new, custom-built model was proposed to assess mackerel stock status and productivity. This "censored" model includes an estimation of unrecorded catches and therefore better estimates spawning stock biomass. Based on model performance and diagnostics, this model was approved as the new analytical framework for Atlantic mackerel.

The new model will be used for the stock assessment of Atlantic Mackerel in subareas 3 and 4 that will be held on March 8-9, 2017 in Mont-Joli.

BACKGROUND

A Canadian Science Advisory Secretariat (CSAS) Regional Peer Review Process meeting was held January 18-22, 2017 in Mont-Joli, Quebec to review the assessment framework for Atlantic Mackerel in Subareas 3 and 4.

In 2012 and 2014, the abundance of Atlantic mackerel had been assessed using a software that has become obsolete and no longer works on recent systems. In addition, this previous model could not account for uncertainty due to unrecorded catches.

ANALYSIS

The results of an online survey of fishers and an analysis of bait needs were presented, in order to estimate an upper limit for unrecorded catches. Based on presented evidence, the committee agreed that total catches could represent 150% to 200% of recorded catches.

A new, custom-built model was proposed to assess mackerel stock status and productivity.

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This "censored" model includes an estimation of unrecorded catches and therefore better estimates spawning stock biomass. Based on model performance and diagnostics, this model was approved as the new analytical framework for Atlantic mackerel.

Based on the lack of a clear stock-recruitment relationship, the Lower Reference Point was chosen as 40% of Bmsy where Bmsy is estimated from Fmsy, which in turn is assumed to be F40%, as suggested by the Canadian Precautionary Approach framework.

STRATEGIC CONSIDERATIONS

The new model will be used for the stock assessment of Atlantic Mackerel in subareas 3 and 4 that will be held on March 8-9, 2017 in Mont-Joli.

NEXT STEP

Discussions from this Regional Peer Review Process meeting will be published in a CSAS Proceedings.

Trevor Swerdfager
Assistant Deputy Minister
Ecosystems and Oceans Science

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Marentette, Julie

From: Marentette, Julie
Sent: January-24-17 10:00 AM
To: Doniol-Valcroze, Thomas
Subject: RE: Question re: Sensitivity Analyses (Mackerel Framework Meeting)

Sorry – I meant the message of the upper right hand panel of Figure 6, where catch increases. I have been interpreting this as the $\Delta Crel$ is the multiplier of the Upper Limit, but would like to make sure I am following correctly. Thanks so much!

Best regards,

Julie Marentette, Ph.D.

Science Advisor, Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Julie.Marentette@dfo-mpo.gc.ca /Tel: 613-943-2098

Conseillère scientifique, Sciences des populations halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Julie.Marentette@dfo-mpo.gc.ca /Tél: 613-943-2098

From: Marentette, Julie
Sent: January-24-17 9:50 AM
To: Doniol-Valcroze, Thomas
Subject: Question re: Sensitivity Analyses (Mackerel Framework Meeting)

Hi Thomas,

I'm still struggling a bit with what $\Delta Crel$ means; it ranges from 0.5 to 1.5, but what is number a multiplier of?

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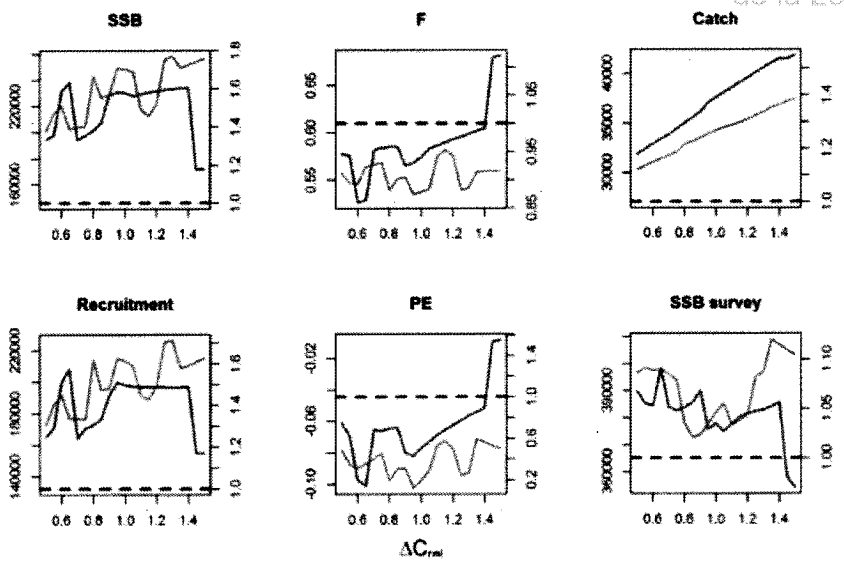


Figure 6. Analyses de sensibilité des paramètres estimés en fonction de l'incertitude autour des prises (ΔC_{rel}). Les lignes pointillées indiquent la valeur du modèle non-censuré et les lignes continues correspondent aux modèles censurés arbitraire (rouge) et informés (vert). L'axe de gauche indique les valeurs absolues (masses en tonnes et recrutement en milliers) et l'axe de droite est rapporté à une valeur relative au modèle non-censuré.

Is the message of this figure that as the Upper Limit of the censored model increases, so does predicted total catch?

Thanks!

Julie Marentette, Ph.D.

Science Advisor, Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Julie.Marentette@dfo-mpo.gc.ca /Tel: 613-943-2098

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Marentette, Julie

From: Marentette, Julie
Sent: January-24-17 10:58 AM
To: Krohn, Martha
Cc: Duprey, Nicholas
Subject: Summary of Mackerel Framework Meeting
Attachments: Summary of Mackerel Framework Meeting 2017.docx

Please find attached my comments and summary, for your interest.

Best regards,

Julie Marentette, Ph.D.

Science Advisor, Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Julie.Marentette@dfo-mpo.gc.ca /Tel: 613-943-2098

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Summary of Mackerel Framework Meeting

January 18-20, 2017

Mont Joli, QC

Overview of 2017 Framework Consensus

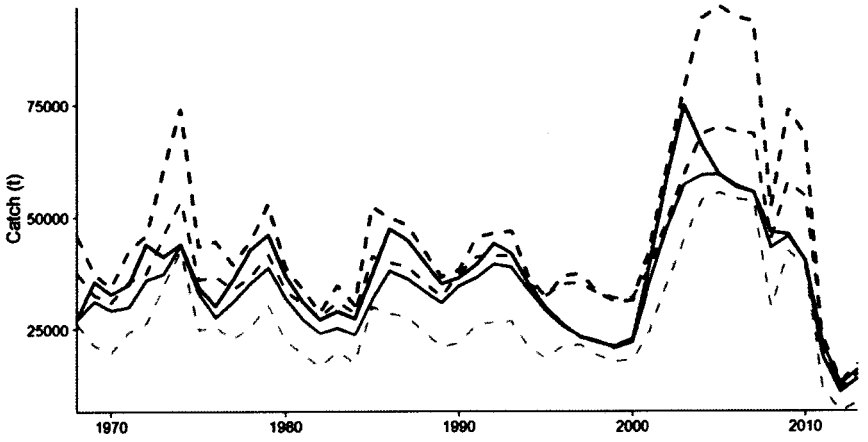


Figure 1 (taken from Doniol-Valcroze et al., 2017 working paper). The grey line represents declared catches (known data), which form the Lower Limit (LL) of the model. The pink model artibrarily assumes that total Mackerel landings (undeclared + declared) are 1.75x the declared catch in any given year (with the dashed line indicating the corresponding upper limit or UL). The green model used the results from the survey to estimate undeclared landings in each year, which are generally less than 1.75x. Note that the modelled catches "touch" the corresponding UL in several locations in both censored models, which suggests that the UL is an underestimate of the true catch.

To be used in March 2017 Assessment

- The assessment will use a censored SCA model in R (using R package *TMB*, for Template Model Builder), with the Lower Limit (LL) defined by the declared catch, and the Upper Limit (UL) derived from the survey estimating undeclared catch. It is **preferable to have informed limits**, as raising the UL always results in increased predicted total landings (declared and undeclared).
- Model will assume a Beverton-Holt stock-recruitment relationship, with PCA data inputs regarding environmental variation. However, a stock-recruitment relationship is weak in this stock and choice of relationship type does not much affect the fit of the model.
- In March, the model will use Gislason et al. (2010) method for estimating natural mortality **M** at age, fixed across years. This is the same M structure as the 2014 assessment, as all participants agreed early-year M was higher than for fish in older age-classes.
- **Recruitment to the fishery will be fixed at age 4-5 based on prior knowledge of biology and gear**, although the best-fitting TMB models predicted that fish don't fully recruit until age 8.
- The **Limit Reference Point will be derived from $F_{40\%}$** (the F that produces 40% of virgin biomass).

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Important Notes

- Primary concern remains the **uncertainty surrounding the extent of non-reported catches.** Recreational and bait fisheries are as important as the commercial fisheries in some areas, and there are regional differences in how this is reported. There is also the issue that some fish enter the US fishery areas (NAFO 5 and 6) resulting in an unknown, varying proportion of American landings being from the Canadian stock each year.
- An online survey was performed to attempt to quantify undeclared catch of mackerel in 2016 to produce an Upper Limit (UL) for the new censored model approach. It is likely that **this survey is still underestimating** total landings
    a) input from industry at the meeting (fishermen's associations not contacted, anecdotes from industry members)
    b) the modeled historical catches press up against the UL at points suggesting that the UL is too low; however, **total predicted catch continues to increase as UL increases** (Figure 2), so knowing what to set as UL does matter (and thus the UL can't be infinitely large).

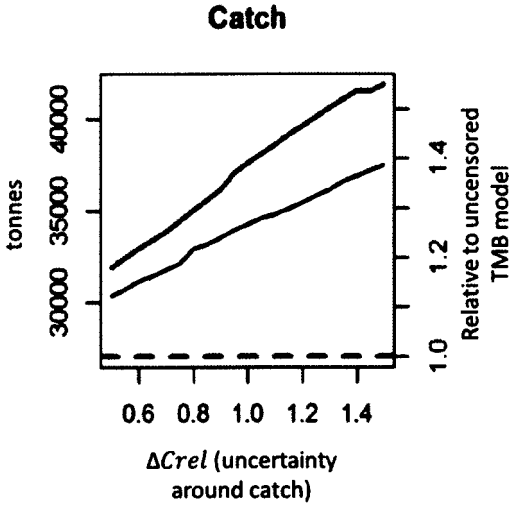


Figure 2 (taken from Doniol-Valcroze et al., 2017 working paper). The TMB models, whether censored by survey data (green) or a constant value of 1.75x (pink), continue to increase estimates of predicted catch as uncertainty around the catch increases. The uncensored model using only declared catch is represented by a dashed black line.

- Neither the new or the old model can adequately model the peaks in the egg survey (i.e., the years in where egg quantity was extremely high). Predicted SSB is always below. It is possible that the **egg survey samples may be biased**, taken behind the boat in some years, and beside the boat in other years. If taken behind the boat, the egg survey would have been affected by boat turbulence.

Comparison with 2014 Stock Assessment

A major problem with the older assessment (CSAS SAR 2014/030), noted at the meeting and described in the SAR, was that it predicted such a **low historical F** (0.087 from 1968 to 1992) that, **after adjusting**

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for the observed retrospective patterns produced by the VPA component of the analysis, the abundance of Mackerel in 2014-2015 was predicted to be only 7532 to 9045 tonnes, less than the annual TAC of 8000 tonnes. The new model also predicts a low mean F between 1968 and 1992, although it may be larger than 0.087 (Figure 3 below). The new model also doesn't require adjustment factors.

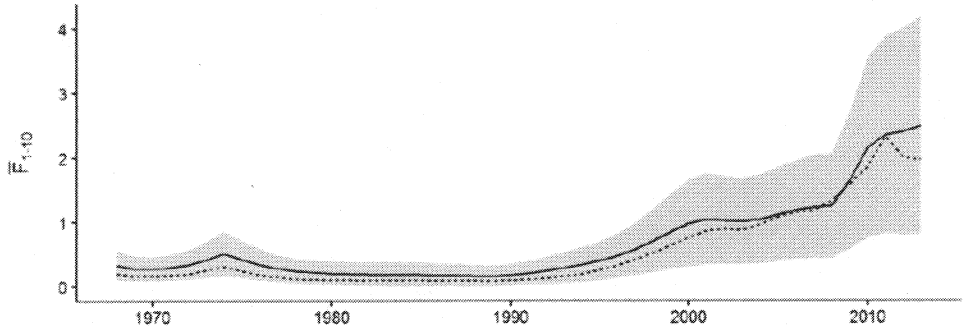


Figure 3 (taken from Doniol-Valcroze et al., 2017 working paper). The TMB model predicts a mean historical F (over ages 1 to 10) that increases over time (dotted line). The solid line and surrounding gray areas represents the results of 400 simulations (mean and confidence interval).

The current model appears to predict that in 2013, the SSB was approximately twice what the older assessment says, although precise numbers are hard to see (see Figure 4 below). Increasing the UL for the censored approach allows the model to decide if more fish were caught, which means more fish were there in the first place, so SSB must have been higher. This also suggests that since the UL is likely to be an underestimate, true stock biomass may be even larger.

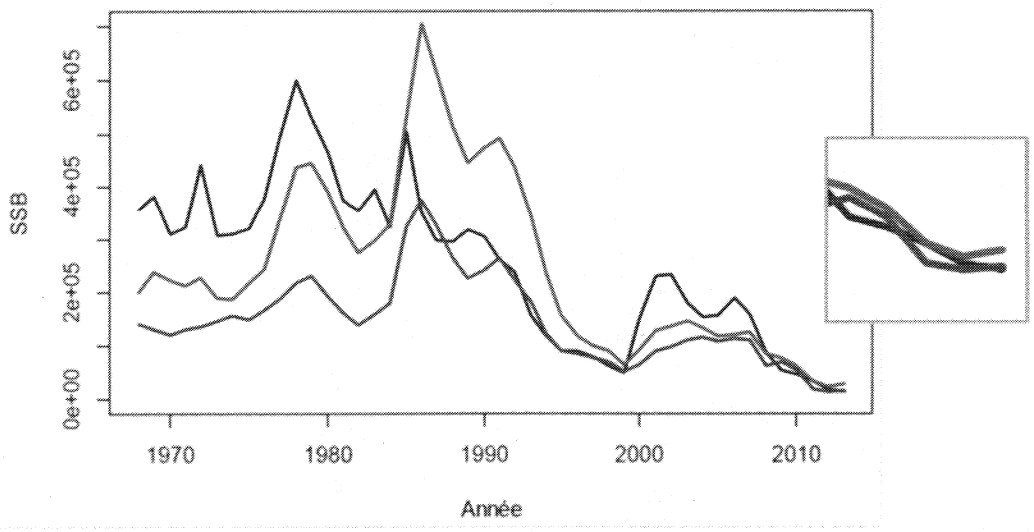


Figure 4 (Doniol-Valcroze et al., 2017 working paper). Historical spawning stock biomass as predicted in the 2014 assessment (black line), the new TMB model that assumes all catches are declared (uncensored model, blue line) and the currently proposed TMB model using censor limits derived from the survey (red line). Please note that this model had fixed M at 0.2 and full recruitment only at age 8; these assummptions will change in the March assessment.

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Many fundamental aspects of the old and new models differ, such as process error and decisions about other error structures. These issues cannot be perfectly aligned and so direct comparisons of the models are complicated by these inherent incompatibilities.

TOPIC	NEW APPROACH	OLD APPROACH
Model	Censored SCA model developed in R (package TMB), with model parameters allowed to vary such that true catch may vary between declared catches (which forms the lower limit) and an estimate of all catches including bycatch, bait and recreational fisheries (upper limit or UL). Tuned with egg survey data (1968-2013, minus missing years). The most direct comparison to the old approach would be the uncensored version of the model that assumed total catch = declared catch only.	ICA (1995) software package for MS-DOS (now obsolete), combined VPA/SCA approach. Tuned with egg survey data (1996-2013, minus missing years).
Natural mortality (M)	Currently fixed at 0.2; for March, will be fixed across years but vary with age according to Gislason et al. (2010).	M was not fixed but allowed to vary as per Gislason et al. (2010).
Limit Reference Point	Biomass corresponding to $F_{40\%}$ (= F that drives biomass to 40% of virgin stock or $B_{F=0}$).	Three options were available, B_{rec}, 40% B_{msy}, and one derived from stock-recruitment relationship
Retrospective Pattern	Very little	Present, requires adjustment factors

Additional Issues

- Industry posed questions about the Oceans Protection Program, and how it can be used to help with mackerel monitoring

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Krohn, Martha

From: Krohn, Martha
Sent: January-25-17 2:24 PM
To: Landry, Jean
Cc: Marentette, Julie
Subject: RE: Request re: Mackerel Framework meeting summary

Categories: Red Category

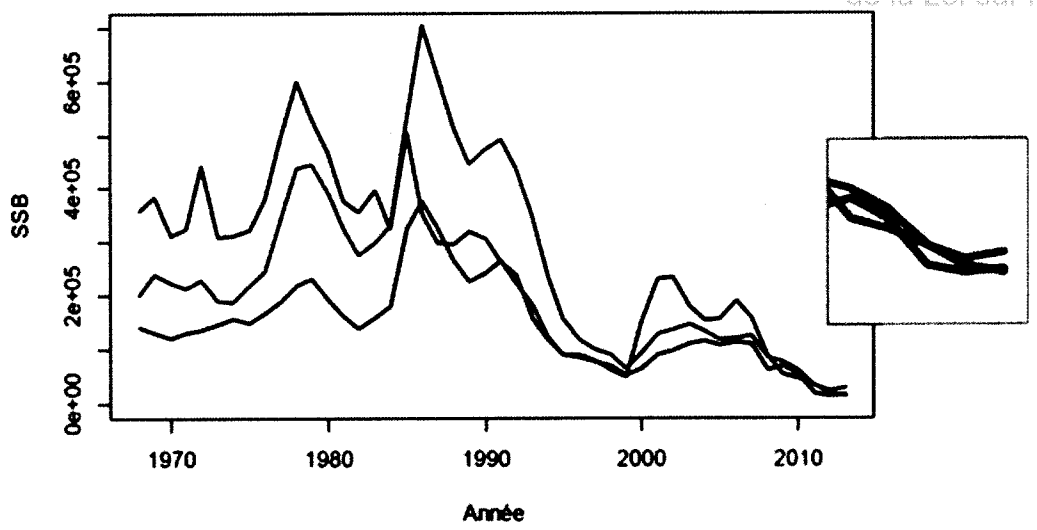
Hello Jean,
Please find below summary information from Julie from the mackerel framework.
Thanks Julie!
Martha

A more detailed piece for you will come shortly.

Context

- Last week (January 18-20 2017) there was a mackerel framework assessment at IML.
- A NOAA stock assessment biologist participated in anticipation of a joint assessment in 2019.
- A new model was accepted that has a better capacity than the previous model (from 2014 assessment) to handle the large uncertainty in catch.
- The assessment is scheduled for March 8-9, 2017.
- The current model was developed using data up to 2014 as the 2015 and 2016 survey data was not available. At the assessment, the model will incorporate those years and harvest advice will be provided for the 2017 season.
- The general pattern of the stock and status were consistent with the previous model from 2014 (the stock was at a historic low in 2014).
- In the figure below, the red line is the new model, black line is the old model, the blue line is a new model variant that does not account for undeclared catch.

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Some highlights/significant points:

- The Mackerel fishery comprises both declared (commercial) and undeclared (bycatch, discards, bait, recreational, and a proportion of American) catches. The magnitude of the undeclared landings is unknown, but is expected to be substantial, and in some regions bait and recreational fisheries may be as important as the commercial component.
- To address some of the uncertainty, a literature review and an online survey of Mackerel recreational and bait fishers in the Atlantic was conducted in 2016.
- The March 2017 assessment will use a newly developed censored Statistical Catch-at-Age (SCA) model that allows total catches to vary between a specified range of values. (The model accepted at the framework meeting last week).
- The lower catch estimate is the declared catch in any given year. The upper catch estimate is informed by the 2016 survey data. This allows the model to account for some undeclared landings.
- The censored SCA will replace the Sequential Population Analysis model used for the 2014 assessment.
- If the upper catch estimate input to the model increases, total predicted catch and total predicted Spawning Stock Biomass increases. Thus, setting an informed upper catch limit is key to presenting an accurate picture of the stock.
- It is likely that the online survey data (from fishermen) and data from literature review obtained in 2016 are still underestimating undeclared catch. Reducing uncertainty around undeclared catch is a key issue for the Mackerel stock.
- The general patterns of changes in spawning stock biomass and fishing mortality over time are similar in both models.
- Methodology for model based reference points was accepted so there will be reference points adopted at the assessment in March.

Best regards,

Julie Marentette, Ph.D.

Science Advisor, Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Julie.Marentette@dfo-mpo.gc.ca /Tel: 613-943-2098

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Conseillère scientifique, Sciences des populations halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Julie.Marentette@dfo-mpo.gc.ca /Tél: 613-943-2098

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Krohn, Martha

From: Krohn, Martha
Sent: January-25-17 11:36 AM
To: Marentette, Julie
Subject: RE: Atlantic Mackerel Advisory Committee?

Categories: Red Category

Thanks Julie,
That sounds perfect. Jessica used to do mackerel. Not sure who does it now?
They will be interested in :

- That there is an accepted model
- How uncertainty in catch was handled
- Involvement of US
- How harvest advice will be provided
- Specifically that risk based advice is the plan.
- The outlook of the stock relative to last advice in 2014 based on the old framework.

Don't worry about the region. You could let them know that you will be letting Brian know how things went, that should be fine?Thanks,
Martha

From: Marentette, Julie
Sent: January-25-17 11:28 AM
To: Krohn, Martha
Subject: RE: Atlantic Mackerel Advisory Committee?

I am planning to schedule a debrief with Brian on the Mackerel meeting, after I discuss with you and Jean on Friday, so I can ask him then. I need to know what sort of things we would normally let EFM know at this stage, without taking the stage away from the region's work.

By Jessica – did you mean Jenness?

Best regards,

Julie Marentette, Ph.D.

Science Advisor, Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Julie.Marentette@dfo-mpo.gc.ca /Tel: 613-943-2098

Conseillère scientifique, Sciences des populations halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Julie.Marentette@dfo-mpo.gc.ca /Tél: 613-943-2098

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From: Krohn, Martha
Sent: January-25-17 11:06 AM
To: Marentette, Julie
Subject: RE: Atlantic Mackerel Advisory Committee?

Hi Julie,
Good questions!:
"advisory meetings" are EFM led and are the way the department consults with industry for harvest decisions . They tend to happen between the assessments and the development of the TAC memo. Science from the region always goes, we have not historically participated in many of those (I have never been to one). Shrimp is an exception. The redfish working group is a subset of the groundfish advisory groups. I would say we are more likely to participate in working groups when there is a science component than full advisory meetings. I was on the working group for mackerel and were that to be revived you would presumable participate in that. You could ask Jessica what they are planning in terms of engaging with that group.
Thinking about this maybe I will e-mail Jessica and Brian on this and ask if they would like a quick run down of the assessment framework? What do you think? Pop by if you think that is easier to discuss.
Same for redfish, the working group with industry (MSE working group) is probrably more useful that the full advisory meetings.
Thanks,
Martha

From: Marentette, Julie
Sent: January-25-17 10:50 AM
To: Krohn, Martha
Subject: Atlantic Mackerel Advisory Committee?

Hello Martha,

At the meeting last week, there was a number of people that mentioned something called "AMAC" and asked whether I'd be attending the upcoming Advisory Committee meeting. I've done a bit of digging, and it seems as though AMAC is sometimes linked to Science... e.g., an Industry/Science working group was established back in 2014 http://www.dfo-mpo.gc.ca/decisions/fm-2016-gp/atl-10-eng.htm.

Does our group participate in, or should be linked to people who participate in, these meetings? What are Advisory Committees and how do they differ from the stock assessment meetings?

If so, are there other Advisory meetings related to my files that I should know? I have heard of the GGAC (Gulf Groundfish Advisory Committee) in relation to Redfish.

Best regards,

Julie Marentette, Ph.D.

Science Advisor, Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Julie.Marentette@dfo-mpo.gc.ca /Tel: 613-943-2098

Conseillère scientifique, Sciences des populations halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Julie.Marentette@dfo-mpo.gc.ca /Tél: 613-943-2098

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Marentette, Julie

From: Landry, Jean
Sent: January-25-17 1:37 PM
To: Krohn, Martha
Cc: Marentette, Julie
Subject: TR: when is mackerel assesment meeting?

Heads-up. Mackerel seems to be getting some attention upstairs.

Jean Landry

Director , Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Jean.Landry@dfo-mpo.gc.ca / Tel: 613-993-0029

Directeur, Sciences halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Jean.Landry@dfo-mpo.gc.ca / Tél. : 613-993-0029

Government of Canada Gouvernement du Canada Canada

De : Landry, Jean
Envoyé : 25 janvier 2017 13:32
À : Swerdfager, Trevor <Trevor.Swerdfager@dfo-mpo.gc.ca>; de Lafontaine, Yves <Yves.deLafontaine@dfo-mpo.gc.ca>
Cc : McPherson, Arran <Arran.McPherson@dfo-mpo.gc.ca>
Objet : RE: when is mackerel assesment meeting?

Yves will be able to add over this as needed. First step (framework assessment) was conducted last week (Jan 18-20). US scientists contributed. One member of FPS also attended. Full assessment of the stock is planned for March 8-9.

Jean Landry

Director , Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Jean.Landry@dfo-mpo.gc.ca / Tel: 613-993-0029

Directeur, Sciences halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Jean.Landry@dfo-mpo.gc.ca / Tél. : 613-993-0029

Government of Canada Gouvernement du Canada Canada

De : Swerdfager, Trevor
Envoyé : 25 janvier 2017 13:18
À : Landry, Jean <Jean.Landry@dfo-mpo.gc.ca>; de Lafontaine, Yves <Yves.deLafontaine@dfo-mpo.gc.ca>
Objet : when is mackerel assesment meeting?

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Trevor Swerdfager
Assistant Deputy Minister, Ecosystems and Oceans Science
Sous-ministre adjoint, Sciences des écosystèmes et des océans
Fisheries and Oceans Canada Pêches et Océans Canada
trevor.swerdfager@dfo-mpo.gc.ca
613-949-4919

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Marentette, Julie

From: Marentette, Julie
Sent: January-25-17 1:59 PM
To: Krohn, Martha
Subject: FW: Request re: Mackerel Framework meeting summary

I spoke to Dan on the phone and revised as follows:

- The Canadian Atlantic Mackerel fishery comprises both declared (commercial) and undeclared (bycatch, discards, bait, recreational, and a proportion of American) catches. The magnitude of the undeclared landings is unknown, but is expected to be substantial, and in some regions bait and recreational fisheries may be as important as the commercial component.
- To address some of the uncertainty, a literature review and an online survey of Mackerel recreational and bait fishers in the Atlantic was conducted in 2016.
- The March 2017 assessment will use a newly developed censored Statistical Catch-at-Age (SCA) model that allows total catches to vary between a specified range of values. The Lower Limit (LL) of the range is the declared catch in any given year. The Upper Limit (UL) accounts for possible undeclared catch and is informed by the 2016 literature review/online survey data.
- If the UL of the censored SCA model increases, total predicted catch and total predicted Spawning Stock Biomass increases (i.e., the model will use any room it is given). Thus, setting an informed UL is key to presenting an accurate picture of the stock.
- The censored SCA will replace the Sequential Population Analysis (SPA) model used for the 2014 assessment, which was performed in software that is now obsolete and cannot be used.
- Based on framework meeting discussions and industry input, it is likely that the survey data obtained in 2016 are still underestimating undeclared catch. Reducing uncertainty around undeclared catch is a key issue for the Mackerel stock.
- Although comparing the new SCA model and the older SPA model is difficult due to differences in fundamental model assumptions, the general patterns of changes in spawning stock biomass and fishing mortality over time are similar in both models.
- The Limit Reference Point will be derived from $F_{40\%}$ (assumed to be equivalent to F_{msy}; 40% B_{msy}, one of three proposed options for Mackerel described in CSAS Res Doc 2014/066).

Best regards,

Julie Marentette, Ph.D.

Science Advisor, Fish Population Science
Fisheries and Oceans Canada / Government of Canada
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From: Marentette, Julie
Sent: January-24-17 6:41 PM
To: Castonguay, Martin; Duplisea, Daniel; Doniol-Valcroze, Thomas

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Cc: Krohn, Martha
Subject: Request re: Mackerel Framework meeting summary

Good afternoon all,

I am preparing to brief (within NCR Science) on the framework meeting for Mackerel last week, and wanted to ensure that my main points below were correct.

If you have the time to check these bullets over, I would greatly appreciate your input. Thanks very much!

- The Canadian Atlantic Mackerel fishery comprises both declared (commercial) and undeclared (bycatch, discards, bait, recreational, and a proportion of American) catches. The magnitude of the undeclared landings is unknown, but is expected to be substantial, and in some regions bait and recreational fisheries may be as important as the commercial component.
- To address some of the uncertainty, a literature review and an online survey of Mackerel recreational and bait fishers in the Atlantic was conducted in 2016.
- The March 2017 assessment will use a newly developed censored Statistical Catch-at-Age (SCA) model that allows total catches to vary between a specified range of values. The Lower Limit (LL) of the range is the declared catch in any given year. The Upper Limit (UL) is informed by the 2016 survey data. This allows the model to account for some undeclared landings.
- The censored SCA will replace the Sequential Population Analysis (SPA) model used for the 2014 assessment, which was performed in software that is now obsolete and cannot be used.
- If the UL of the censored SCA model increases, total predicted catch and total predicted Spawning Stock Biomass increases (i.e., the model will use any room it is given). Thus, setting an informed, evidence-based UL is key to presenting an accurate picture of the stock.
- Based on framework meeting discussions and industry input, it is likely that the survey data obtained in 2016 are still underestimating undeclared catch. Reducing uncertainty around undeclared catch is a key issue for the Mackerel stock.
- Although comparing the new SCA model and the older SPA model is difficult due to differences in fundamental model assumptions, the general patterns of changes in spawning stock biomass and fishing mortality over time are similar in both models.
- The Limit Reference Point will be derived from $F_{40\%}$ (assumed to be equivalent to F_{msy}; one of three proposed options for Mackerel described in CSAS Res Doc 2014/066).

Best regards,

Julie Marentette, Ph.D.

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Marentette, Julie

From: Krohn, Martha
Sent: January-25-17 4:20 PM
To: Marentette, Julie
Subject: RE: Summary of Mackerel Framework Meeting
Attachments: Summary of Mackerel Framework Meeting 2017 FINAL.docx

Thanks for your help with all the explaining!
Please send to Jean and cc me. Thanks!!!

From: Marentette, Julie
Sent: January-25-17 2:11 PM
To: Duprey, Nicholas; Krohn, Martha
Subject: RE: Summary of Mackerel Framework Meeting

Revised meeting notes.

Martha, I can send to Jean as soon as you give the OK to this and to the bullets.

Best regards,

Julie Marentette, Ph.D.

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From: Marentette, Julie
Sent: January-25-17 1:45 PM
To: Duprey, Nicholas; Krohn, Martha
Subject: RE: Summary of Mackerel Framework Meeting

Estimated achieved actual catches, including all undeclared, yes.

They will project forward under various F scenarios to give risk-based advice, not planning to give a TAC. I am going to assume the model Upper Limit will be assumed to be constant from 2016 onward, although I don't recall that being explicitly discussed.

The way I described the LRP was my mistake, there have been some glitches in my understanding which was filtered through the interpreter at the meeting (who is not a subject matter expert). I think what they meant to say is that the LRP is going to be is 40% Bmsy, calculated from Fmsy where they assume F40% is equal to Fmsy (at least, that is how they discuss it in the Res Doc from 2014). So they essentially picked one of the three candidate LRPs from the earlier options.

I am revising the document based on these and Martha's earlier comments, will resend shortly.

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Best regards,

Julie Marentette, Ph.D.

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From: Duprey, Nicholas
Sent: January-25-17 1:39 PM
To: Marentette, Julie; Krohn, Martha
Subject: RE: Summary of Mackerel Framework Meeting

Ok, this makes more sense now.... I was assuming the solid red line was the 1.75*catch, good explanation now I see that the dashed line is 1.75*catch and the solid line is the modeled one between the two limits
These are achieved catches correct? Any idea how they plan to provide risk/advice on possible catches for 2018-2019 and 2019-2020?

Great they have settled on a LRP... I am assuming (from eye-balling the graph) that the stock is in the critical zone using F(40% virgin biomass)? Any discussion on that?
Cheers
Nick

Nicholas Duprey, M.Sc.

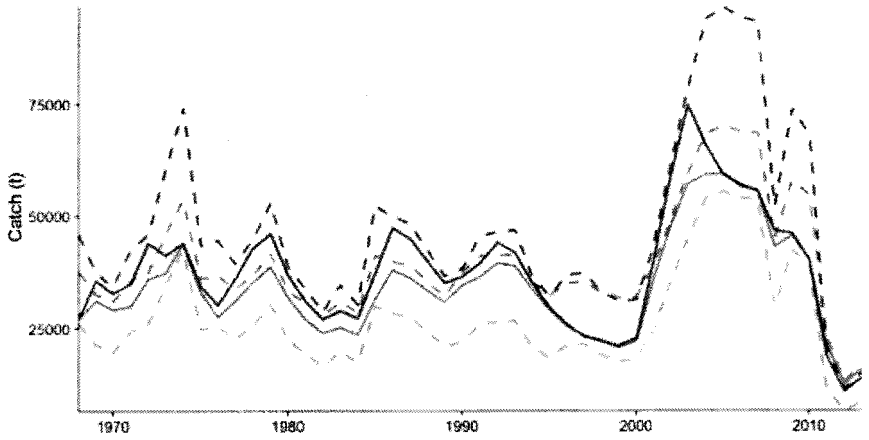
Senior Science Advisor, Fish Population Science
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From: Marentette, Julie
Sent: 2017–January-25 10:16 AM
To: Duprey, Nicholas; Krohn, Martha
Subject: RE: Summary of Mackerel Framework Meeting

Hi Nick,

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So the pink model (solid line) is the result of an SCA model allowed to find the best fit line between the Lower Limit (gray dashed line, known catches) and the Upper Limit (pink dashed line, known catches * 1.75). So you give the model the known landings, the information from the annual egg survey, commercial data on GSI/weight/age, a stock-recruitment relationship, a gear selectivity function and a value for M, and say "the real catches can be anywhere from this dotted line to the next dotted line on any given year, we aren't sure exactly where." The model will search in this space and output the best-fitting actual catch prediction line that maximizes the model likelihood. (It will also output SSB over time, F over time and a bunch of other things).

Green model (using the survey data), same thing. The dashed lines are the limits and the solid line is the best-fit model using those limits. The green model is closest to what will be used in March but now they will be changing some of the assumptions about M and recruitment, and the shape of that curve may change somewhat.

It's all about fitting the best likelihood, which is itself driven by assumptions about M, S-R, selectivity, etc. It's also driven by the egg survey, and those high peaks can pull the model up to higher values, especially earlier in the time series. So the best fit line can sometimes touch the limits. Where the model is close the Upper Limit, it suggests maybe the Upper Limit isn't quite high enough (and that undeclared catch has been underestimated). Where the model is close to the Lower Limit, it suggests that those are the years when known landings approximates pretty closely the real stock abundance, for whatever reason.

I think there is so much uncertainty about how undeclared catch varies over the time series that you wouldn't want to just use the survey data (the green dotted line) as actual landings. The censoring method is the way to accommodate that uncertainty. The model itself was adapted from Cadigan who used it for cod, I believe.

Let me know if that helps!

Best regards,

Julie Marentette, Ph.D.

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From: Duprey, Nicholas
Sent: January-25-17 12:58 PM
To: Marentette, Julie; Krohn, Martha
Subject: RE: Summary of Mackerel Framework Meeting

Hi Julie,
Thanks for sending this along, great summary.

From Figure 1 I am having some trouble understanding the three coloured lines. If grey is known catch (let's call it simply Catch), and green is Catch+survey and pink is Catch*1.75 how can the grey line and the pink line ever touch? I must be missing something here but can't quite figure out what it is...

Cheers
Nick

Nicholas Duprey, M.Sc.

Senior Science Advisor, Fish Population Science
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From: Marentette, Julie
Sent: 2017–January-24 7:58 AM
To: Krohn, Martha
Cc: Duprey, Nicholas
Subject: Summary of Mackerel Framework Meeting

Please find attached my comments and summary, for your interest.

Best regards,

Julie Marentette, Ph.D.

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Summary of Mackerel Framework Meeting - Notes

January 18-20, 2017

Mont Joli, QC

N.B. These represent individual staff meeting notes and have not been verified through Regional DFO Science representatives. Formal minutes and a report of the meeting will be forthcoming through the Quebec region.

Overview of 2017 Framework Consensus

To be used in March 2017 Assessment

- The assessment will use a censored Statistical Catch-at-Age model in R (using R package *TMB*, for Template Model Builder), with the Lower Limit (LL) defined by the declared catch, and the Upper Limit (UL) derived from the survey estimating undeclared catch. It is **preferable to have informed limits**, as raising the UL always results in increased predicted total landings (declared and undeclared).

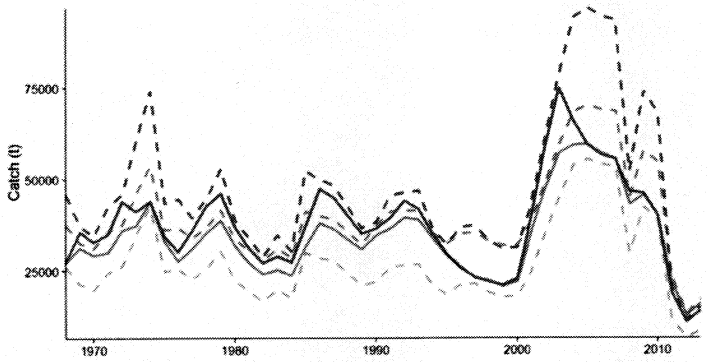


Figure 1 (taken from Doniol-Valcroze et al., 2017 working paper). The grey dashed line represents declared catches (known data), which form the Lower Limit (LL) of the model. The pink model artibrarily assumes that total Mackerel landings (undeclared + declared) are 1.75x the declared catch in any given year (with the dashed line indicating the corresponding upper limit or UL and the solid line indicating the predicted total catches). The green model used the results from the survey to estimate undeclared landings in each year, which are generally less than 1.75x. Note that the modelled catches "touch" the corresponding UL in several locations in both censored models, which suggests that the UL is an underestimate of the true catch.

- Model will assume a Beverton-Holt stock-recruitment relationship, including some environmental variation. However, the ~~a~~ stock-recruitment relationship is weak ~~in this stock~~,

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and in this case, the choice of relationship type (i.e., Ricker, etc.) does not much affect the fit of the model.

- A couple of agreed changes will be made to the model before the assessment: (1) Age specific natural mortality will be fixed across years as was done in the 2014 model. (2) Recruitment to the fishery will be fixed at age 4-5 based on knowledge of biology and gear (the best-fitting models predicted that fish don't fully recruit until age 8 but this was not seen as credible).
-
- ~~In March, the model will use Gislason et al. (2010) method for estimating natural mortality **M** at age, fixed across years. This is the same M structure as the 2014 assessment, as participants agreed early-year M was higher than for fish in older age-classes and it doesn't make sense to fix M at 0.2 for all ages.~~
- ~~**Recruitment to the fishery will be fixed at age 4-5 based on prior knowledge of biology and gear**, although the best-fitting TMB models predicted that fish don't fully recruit until age 8.~~
- The **Limit Reference Point will be derived from $F_{40\%}$** (assumed to be equivalent to F_{msy}; 40% B_{msy}, one of three proposed options for Mackerel described in CSAS RD 2014/066).

Important Notes

- Primary concern remains the **uncertainty surrounding the extent of non-reported catches**. Recreational and bait fisheries are as important as the commercial fisheries in some areas, and there are regional differences in how this is reported. There is also the issue that some fish enter the US fishery areas (NAFO 5 and 6) resulting in an unknown, varying proportion of American landings being from the Canadian stock each year.
- An online survey was performed in 2016 to attempt to quantify undeclared catch of mackerel to produce an Upper Limit (UL) for the new censored model approach. It is likely that **this survey is still underestimating** total landings
    a) input from industry at the meeting (fishermen's associations not contacted, anecdotes from industry members)
    b) the modeled historical catches press up against the UL at points suggesting that the UL is too low; however, **total predicted catch continues to increase as UL increases** (Figure 2), so knowing what to set as UL does matter (and thus the UL can't be infinitely large and it must be constrained).

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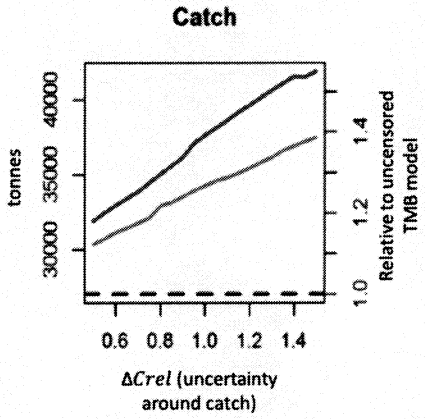


Figure 2 (adapted from Doniol-Valcroze et al., 2017 working paper). The ~~TMB~~ models, whether censored by survey data (green) or a constant value of 1.75x (pink), continue to increase estimates of predicted catch as uncertainty around the catch increases. The uncensored model using only declared catch is represented by a dashed black line.

- Neither the new or the old model can adequately model the peaks in the egg survey (i.e., the years in where egg quantity was extremely high). Predicted SSB is always below for those years when egg quantity was high. It is possible that the **egg survey samples may be biased**, taken behind the boat in some years, and beside the boat in other years. If taken behind the boat, the egg survey would have been affected by boat turbulence.

Comparison with 2014 Stock Assessment

A major problem with the older assessment (CSAS SAR 2014/030), noted at the meeting and described in the SAR, was that it predicted such a **low historical F** (0.087 from 1968 to 1992) that, **after adjusting for the observed retrospective patterns** ~~produced by the VPA component of the analysis~~, the abundance of Mackerel in 2014-2015 was predicted to be only 7532 to 9045 tonnes, less than the annual TAC of 8000 tonnes. The new model also predicts a low mean historical F between 1968 and 1992, although it may be larger than 0.087 (Figure 3 below). The new model also doesn't require retrospective adjustment ~~factors~~.

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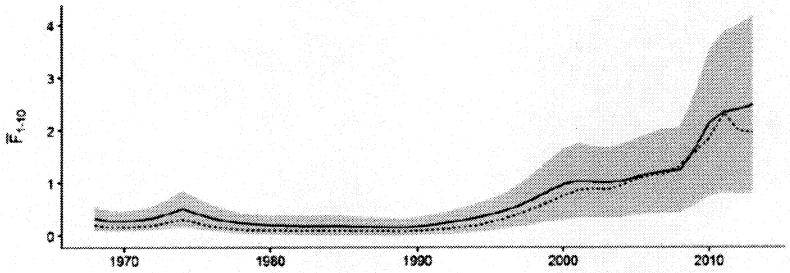


Figure 3 (taken from Doniol-Valcroze et al., 2017 working paper). The ~~TMB~~ model predicts an annual mean historical F (over ages 1 to 10) that increases over time (dotted line). The solid line and surrounding gray areas represents the results of 400 simulations (mean and confidence interval).

The current model estimates ~~predict~~ that ~~in 2013~~, the 2013 SSB was greater than the estimate from the 2014 model~~older assessment says, although precise numbers are hard to see~~ (see Figure 4 below). Increasing the UL for the censored approach allows the model estimate a higher catch which also has the effect of increasing the biomass estimates. This also suggests that if the UL is an underestimate, true stock biomass would be even larger.

~~**The current model appears to predict that in 2013, the SSB was greater than what the older assessment indicated, although precise numbers are hard to see** (see Figure 4 below). Increasing the UL for the censored approach allows the model to decide if more fish were caught, which means more fish were there in the first place, so SSB must have been higher. This also suggests that since the UL is likely to be an underestimate, true stock biomass may be even larger.~~

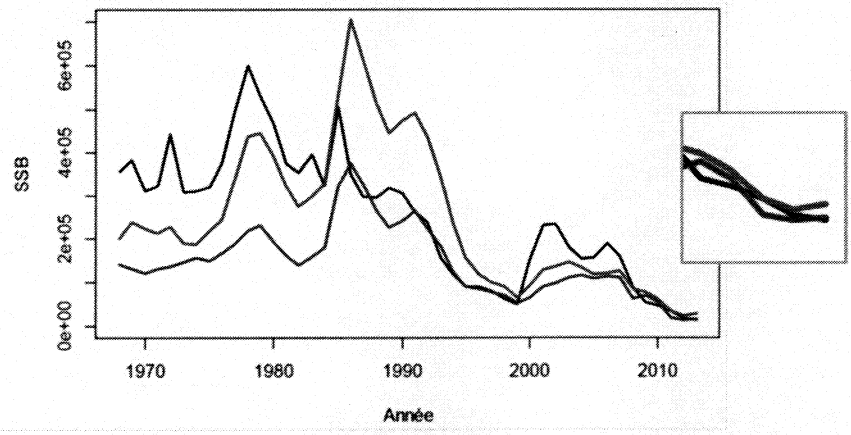


Figure 4 (adapted from Doniol-Valcroze et al., 2017 working paper).

Black line Historical spawning stock biomass as predicted in the 2014 assessment ~~(black line)~~,
Blue line ~~the~~ (new uncensored model) that assumes all catches are declared ~~(uncensored model, blue line)~~

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Red line ~~and the currently~~ accepted ~~proposed~~ model using censor limits derived from the online survey and literature review~~survey (red line)~~.

~~Historical spawning stock biomass as predicted in the 2014 assessment (black line), the new TMB model that assumes all catches are declared (uncensored model, blue line) and the currently proposed TMB model using censor limits derived from the survey (red line).~~ *

*Please note that this model had fixed M at 0.2 and full recruitment only at age 8; these assumptions will change in the March assessment.

Many fundamental aspects of the old and new models differ, such as process error and decisions about other error structures. These issues cannot be perfectly aligned and so direct comparisons of the models are complicated by these inherent incompatibilities.

TOPIC	NEW APPROACH	OLD APPROACH
Model	Censored SCA model developed in R (package TMB), with model parameters allowed to vary such that true catch may vary between declared catches (which forms the lower limit) and an estimate of all catches including bycatch, bait and recreational fisheries (upper limit or UL). Tuned with egg survey data (1968-2013, minus missing years). The most direct comparison to the old approach would be the uncensored version of the model that assumed total catch = declared catch only.	ICA (1995) software package for MS-DOS (now obsolete), combined VPA/SCA approach. Tuned with egg survey data (1996-2013, minus missing years).
Natural mortality (M)	Currently fixed at 0.2; for March, will be fixed across years but vary with age according to Gislason et al. (2010).	M was not fixed but allowed to vary as per Gislason et al. (2010).
Limit Reference Point	Biomass corresponding to $F_{40\%}$ (assumed to be equivalent to F_{msy}; one of three proposed options for Mackerel described in CSAS RD 2014/066).	Three options were available, B_{rec}, 40% B_{msy}, and one derived from stock-recruitment relationship
Retrospective Pattern	Very little	Present, requires adjustment factors
TOPIC	NEW APPROACH	OLD APPROACH
Model	• Censored SCA model ~~developed in R (package TMB),~~	• ~~ICA (1995) software package~~

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	~~with model~~ allows parameters ~~allowed~~ to vary such that true catch may vary from ~~between~~ alower limit using declared catches and an upper limit ~~(which forms the lower limit)~~ • Which is ~~and~~ an estimate of all catches including bycatch, bait and recreational ~~fisheries (upper limit or UL).~~ • Tuned with egg survey data (1968-2013~~, minus missing years~~). • The most direct comparison to the old approach would be the uncensored version of the model that assumed total catch = declared catch only.	~~for MS-DOS (now obsolete);~~ Ceombined VPA/SCA approach. • Tuned with shorter time series for egg survey data (1996-2013) ~~minus missing years).~~
Natural mortality (M)	• Currently fixed at 0.2; • In ~~for~~ March it ~~,~~ will be age-specific but fixed across years. ~~but vary with age according to Gislason et al. (2010).~~	• age-specific M but fixed across years (so will be the same) ~~M was not fixed but allowed to vary as per Gislason et al. (2010).~~
Limit Reference Point	Biomass corresponding to $F_{40\%}$ (= F that drives biomass to 40% of Bmsy).	• Three options were proposed in 2015~~available~~, B_{rec}, ~~40% B_{msy}~~, and one derived from stock-recruitment relationship
Retrospective Pattern	• Very little retrospective problem	Strong retrospective pattern that ~~Present~~, required adjustment ~~factors~~

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Considerations for EFM

Assessment method: Censored Statistical Catch-at-Age model with limits informed by the literature and online survey conducted in 2016.

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Mechanism of accounting for Uncertainty: The use of upper and lower limits in the censored model, which allows "actual" catch in each year to vary between declared landings, and an upper limit informed by the results of the survey to estimate

U.S. Involvement: NOAA Stock Assessment biologist [redacted] attended, and will attend also the March assessment meeting.

How harvest advice will be provided: The stock biomass projections will be performed under a range of possible F scenarios, to be performed and presented in March. (Risk-based approach)

2016 ~~Current~~ stock outlook relative to 2014: This information will be presented in March. The Framework meeting used the data available up to 2013 only, to make direct model comparisons between the new approach and the 2014 assessment~~older software~~.

Additional Issues

- Industry members posed questions about the Oceans Protection Program, and how it can be used to help with mackerel monitoring

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Krohn, Martha

From: Doniol-Valcroze, Thomas
Sent: January-26-17 9:56 AM
To: Marentette, Julie; Castonguay, Martin; Duplisea, Daniel
Cc: Krohn, Martha
Subject: RE: Request re: Mackerel Framework meeting summary

Categories: Red Category

Julie,

This is an excellent summary of the meeting. I have added a few clarifications below (in red), but the bullets capture the main conclusions very well.

Thomas

De : Marentette, Julie
Envoyé : 24 janvier 2017 18:41
À : Castonguay, Martin; Duplisea, Daniel; Doniol-Valcroze, Thomas
Cc : Krohn, Martha
Objet : Request re: Mackerel Framework meeting summary

Good afternoon all,

I am preparing to brief (within NCR Science) on the framework meeting for Mackerel last week, and wanted to ensure that my main points below were correct.

If you have the time to check these bullets over, I would greatly appreciate your input. Thanks very much!

- The Canadian Atlantic Mackerel fishery comprises both declared (commercial) and undeclared (bycatch, discards, bait, recreational, and a proportion of American) catches. The magnitude of the undeclared landings is unknown, but is expected to be substantial, and in some regions bait and recreational fisheries may be as important as the commercial component.
- To address some of the uncertainty, a literature review ***[TDV]*** of bait needs and an online survey of Mackerel recreational and bait fishers in the Atlantic was conducted in 2016.
- The March 2017 assessment will use a newly developed censored Statistical Catch-at-Age (SCA) model that allows total catches to vary between a specified range of values. The Lower Limit (LL) of the range is the declared catch in any given year. The Upper Limit (UL) is informed by the 2016 ***[TDV]*** review of bait needs and online survey data. This allows the model to account for some undeclared landings.
- The censored SCA will replace the Sequential Population Analysis (SPA) model used for the 2014 assessment, which was performed in software that is now obsolete and cannot be used.
- If the UL of the censored SCA model increases, total predicted catch and total predicted Spawning Stock Biomass increases (i.e., the model will use ***[TDV]*** additional room it is given***[TDV]*** to a certain extent). Thus, setting an informed, evidence-based UL is key to presenting an accurate picture of the stock.

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- Based on framework meeting discussions and industry input, it is likely that the survey data obtained in 2016 are still underestimating undeclared catch. Reducing uncertainty around undeclared catch is a key issue for the Mackerel stock.
- Although comparing the new SCA model and the older SPA model is difficult due to differences in fundamental model assumptions, the general patterns of changes in spawning stock biomass and fishing mortality over time are similar in both models.
- The Limit Reference Point will be derived from $F_{40\%}$ (assumed to be equivalent to F_{msy}; one of three proposed options for Mackerel described in CSAS Res Doc 2014/066).

Best regards,

Julie Marentette, Ph.D.

Science Advisor, Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Julie.Marentette@dfo-mpo.gc.ca /Tel: 613-943-2098

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Marentette, Julie

From: Doniol-Valcroze, Thomas
Sent: January-26-17 9:25 AM
To: Marentette, Julie
Subject: RE: Question re: Sensitivity Analyses (Mackerel Framework Meeting)

Julie,

The $\Delta Crel$ on the x-axis is a multiplier applied to the upper limit of the censored model. Indeed, this figure shows that, on average, if you increase the upper limit, the predicted catches increase, as well as SSB and recruitment, while F stays relatively constant. This figure is hard to interpret because the values plotted are means over the entire time series. This is why we presented it differently on the second day and will update the res doc with clearer plots.

Thomas

De : Marentette, Julie
Envoyé : 24 janvier 2017 09:50
À : Doniol-Valcroze, Thomas
Objet : Question re: Sensitivity Analyses (Mackerel Framework Meeting)

Hi Thomas,

I'm still struggling a bit with what ΔC_{rel} means; it ranges from 0.5 to 1.5, but what is number a multiplier of?

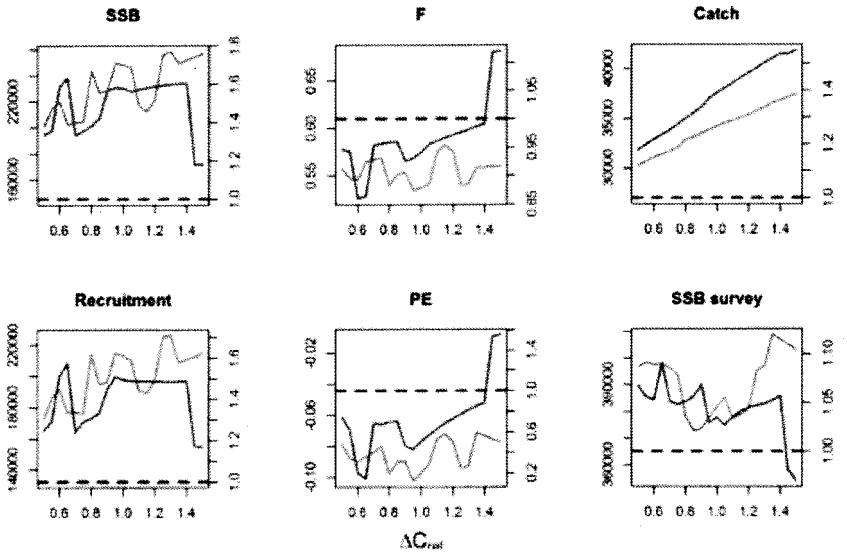


Figure 6. Analyses de sensibilité des paramètres estimés en fonction de l'incertitude autour des prises (ΔC_{rel}). Les lignes pointillées indiquent la valeur du modèle non-censuré et les lignes continues correspondent aux modèles censurés arbitraire (rouge) et informés (vert). L'axe de gauche indique les valeurs absolues (masses en tonnes et recrutement en milliers) et l'axe de droite est rapporté à une valeur relative au modèle non-censuré.

Is the message of this figure that as the Upper Limit of the censored model increases, so does predicted total catch?

Thanks!

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Julie Marentette, Ph.D.

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Marentette, Julie

From: Landry, Jean
Sent: January-26-17 5:35 PM
To: Krohn, Martha
Cc: Marentette, Julie
Subject: RE: TR: Request re: Mackerel Framework meeting summary

Let's discuss tomorrow before sending more material.

Jean Landry

Director , Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Jean.Landry@dfo-mpo.gc.ca / Tel: 613-993-0029

Directeur, Sciences halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Jean.Landry@dfo-mpo.gc.ca / Tél. : 613-993-0029

Government of Canada Gouvernement du Canada

Canada

De : Krohn, Martha
Envoyé : 26 janvier 2017 14:03
À : Landry, Jean <Jean.Landry@dfo-mpo.gc.ca>
Cc : Marentette, Julie <Julie.Marentette@dfo-mpo.gc.ca>
Objet : RE: TR: Request re: Mackerel Framework meeting summary

Hi Jean,
Further to Trevor's request for more info about the new mackerel model, I don't believe this more detailed piece went to Arran or Trevor.
It has not been vetted by the region. Julie is going to ask them to take a look at it.
Thanks,
Martha

From: Swerdfager, Trevor
Sent: January-26-17 1:41 PM
To: McPherson, Arran; Chin, Melanie
Cc: Landry, Jean; Krohn, Martha
Subject: RE: TR: Request re: Mackerel Framework meeting summary

Thanks for this. I am very interested in this one and would like to be kept in the loop and am happy to receive much more detailed information than I am usually interested in. I would particularly like to learn more about the new model and how it works etc.

Trevor Swerdfager
Assistant Deputy Minister, Ecosystems and Oceans Science
Sous-ministre adjoint, Sciences des écosystèmes et des océans

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Fisheries and Oceans Canada Pêches et Océans Canada
trevor.swerdfager@dfo-mpo.gc.ca
613-949-4919

From: McPherson, Arran
Sent: Thursday, January 26, 2017 1:01 PM
To: Swerdfager, Trevor <Trevor.Swerdfager@dfo-mpo.gc.ca>; Chin, Melanie <Melanie.Chin@dfo-mpo.gc.ca>
Subject: Fw: TR: Request re: Mackerel Framework meeting summary

Further to your question yesterday re Mackerel. Arran

From: Landry, Jean
Sent: Wednesday, January 25, 2017 07:52 PM Eastern Standard Time
To: McPherson, Arran
Cc: Krohn, Martha; Marentette, Julie
Subject: TR: Request re: Mackerel Framework meeting summary

Julie and Martha: Very good and useful synthesis. I am looking forward to discuss further these outcomes with you on Friday. This is really positive outcomes compared to the last full assessment.

Arran: Below are the outcomes of the Framework assessment meeting on mackerel conducted last week. This is the first step. Second step (full assessment of the status of the stock) is scheduled for March. Julie is involved. Positive outcomes indicating clearly that we should expect a much stronger assessment approach supporting the next advice. Trevor has asked questions about mackerel today therefore I wanted to share with you this preliminary information.

I have a meeting planned with Martha and Julie on Friday to discuss these outcomes.
Jean

Jean Landry

Director , Fish Population Science
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Government of Canada Gouvernement du Canada

Canada

De : Krohn, Martha
Envoyé : 25 janvier 2017 18:43
À : Landry, Jean <Jean.Landry@dfo-mpo.gc.ca>
Objet : Re: Request re: Mackerel Framework meeting summary

We went through these in detail and I am good with them

Sent from my BlackBerry 10 smartphone on the Rogers network.

From: Marentette, Julie
Sent: Wednesday, January 25, 2017 5:20 PM
To: Landry, Jean

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Cc: Krohn, Martha
Subject: RE: Request re: Mackerel Framework meeting summary

Hello Jean,

Here are my notes from the meeting (these have not been vetted by the Region), if you would like more details.

Best regards,

Julie Marentette, Ph.D.
Science Advisor, Fish Population Science
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Julie.Marentette@dfo-mpo.gc.ca /Tel: 613-943-2098
Conseillère scientifique, Sciences des populations halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Julie.Marentette@dfo-mpo.gc.ca /Tél: 613-943-2098

From: Krohn, Martha
Sent: January-25-17 2:24 PM
To: Landry, Jean
Cc: Marentette, Julie
Subject: RE: Request re: Mackerel Framework meeting summary

Hello Jean,
Please find below summary information from Julie from the mackerel framework.
Thanks Julie!
Martha

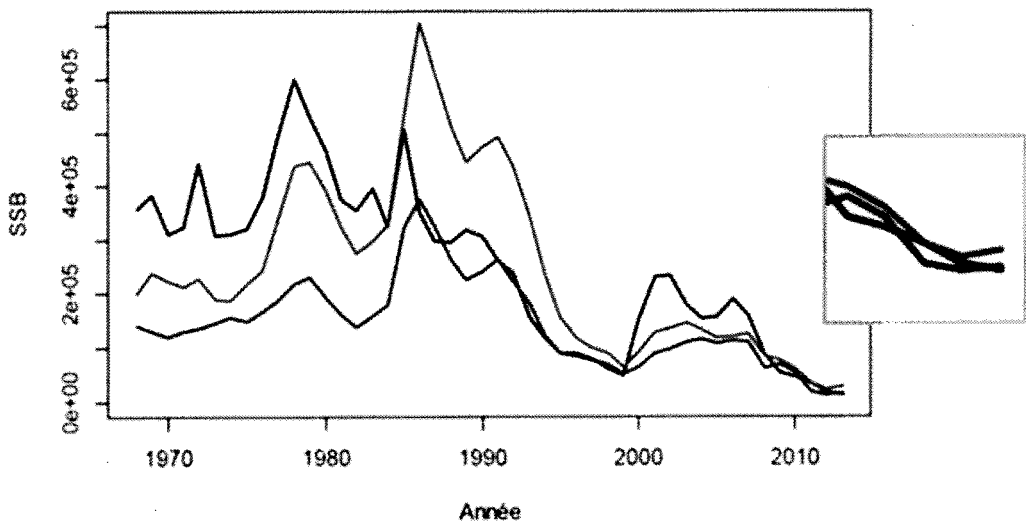
A more detailed piece for you will come shortly.

Context

- Last week (January 18-20 2017) there was a mackerel framework assessment at IML.
- A NOAA stock assessment biologist participated in anticipation of a joint assessment in 2019.
- A new model was accepted that has a better capacity than the previous model (from 2014 assessment) to handle the large uncertainty in catch.
- The assessment is scheduled for March 8-9, 2017.
- The current model was developed using data up to 2014 as the 2015 and 2016 survey data was not available. At the assessment, the model will incorporate those years and harvest advice will be provided for the 2017 season.
- The general pattern of the stock and status were consistent with the previous model from 2014 (the stock was at a historic low in 2014).

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- In the figure below, the red line is the new model, black line is the old model, the blue line is a new model variant that does not account for undeclared catch.



Some highlights/significant points:

- The Mackerel fishery comprises both declared (commercial) and undeclared (bycatch, discards, bait, recreational, and a proportion of American) catches. The magnitude of the undeclared landings is unknown, but is expected to be substantial, and in some regions bait and recreational fisheries may be as important as the commercial component.
- To address some of the uncertainty, a literature review and an online survey of Mackerel recreational and bait fishers in the Atlantic was conducted in 2016.
- The March 2017 assessment will use a newly developed censored Statistical Catch-at-Age (SCA) model that allows total catches to vary between a specified range of values. (The model accepted at the framework meeting last week).
- The lower catch estimate is the declared catch in any given year. The upper catch estimate is informed by the 2016 survey data. This allows the model to account for some undeclared landings.
- The censored SCA will replace the Sequential Population Analysis model used for the 2014 assessment.
- If the upper catch estimate input to the model increases, total predicted catch and total predicted Spawning Stock Biomass increases. Thus, setting an informed upper catch limit is key to presenting an accurate picture of the stock.
- It is likely that the online survey data (from fishermen) and data from literature review obtained in 2016 are still underestimating undeclared catch. Reducing uncertainty around undeclared catch is a key issue for the Mackerel stock.
- The general patterns of changes in spawning stock biomass and fishing mortality over time are similar in both models.
- Methodology for model based reference points was accepted so there will be reference points adopted at the assessment in March.

Best regards,

Julie Marentette, Ph.D.

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Boudreau, Carol-Ann

From: Marentette, Julie
Sent: January-27-17 2:26 PM
To: Landry, Jean
Cc: Krohn, Martha
Subject: Mackerel document (ADM request)
Attachments: Summary 2017 Mackerel Framework Mtg Jan 2017.pdf

Good afternoon Jean,

As discussed, please find attached a pdf with a more detailed account of the Mackerel Framework Meeting held at IML on January 18-20. It focuses on an explanation of the new model that will be used to assess the stock, and how that model addresses uncertainty around total catch. A meeting proceedings and up to two research documents are expected through CSAS as a result of the framework meeting, and a Science Advisory Report should follow the March 8-9 Assessment. This document will be shared with EFM as well.

An additional 101 backgrounder on the Atlantic Mackerel file will be forthcoming before the assessment.

Best regards,

Julie Marentette, Ph.D.

Science Advisor, Fish Population Science
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Julie.Marentette@dfo-mpo.gc.ca /Tél: 613-943-2098

Pages 420 to / à 425
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page 427

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Krohn, Martha

From: Doniol-Valcroze, Thomas
Sent: January-27-17 10:24 AM
To: Marentette, Julie; Duplisea, Daniel; Castonguay, Martin
Cc: Krohn, Martha
Subject: RE: REQUEST: Mackerel Meeting Notes Review
Attachments: Summary 2017 Mackerel Framework Mtg Jan 2017.docx

Julie,

This an excellent summary of our main findings and discussion, and well expressed in layman terms. I only made a few minor suggestions or corrections. The only point that I think needs be changed is about the historical F (see me changes in the text). The new model will predict a small historical F just as the old one did; this is just because the landings at that time were small relative to the size of the stock and this will be true no matter which model is used. The issue that was discussed at the meeting was about the impact of applying this small F to the current stock size (which had resulted in the TAC recommendation of 800 t). The new model will alleviate this issue a little by predicting a higher SSB in recent years, but this is fundamentally an issue with the choice of F rather than a modelling issue.

Thomas

De : Marentette, Julie
Envoyé : 26 janvier 2017 14:07
À : Duplisea, Daniel; Doniol-Valcroze, Thomas; Castonguay, Martin
Cc : Krohn, Martha
Objet : REQUEST: Mackerel Meeting Notes Review
Importance : Haute

Hi all,

I have been asked to provide more detailed notes on the Mackerel Framework Meeting to higher levels (ADM). **This may need to go up very quickly.**

I've attached my own meeting notes – Please review and provide comments if you have the time. Apologies for the short notice.

Thanks very much!

Best regards,

Julie Marentette, Ph.D.

Science Advisor, Fish Population Science
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Summary of Mackerel Framework Meeting - Notes

January 18-20, 2017

Mont Joli, QC

Overview of 2017 Framework Consensus

To be used in March 2017 Assessment

- An online survey of fishermen and a literature review was conducted in 2016 to get an estimate of undeclared Atlantic Mackerel recreational and bait catches.
- In order to address uncertainty around undeclared catch, the 2017 stock assessment will use a censored Statistical Catch-at-Age model, where the model finds the best-fit line between two limits. The Lower Limit (LL) is defined by the declared catch, and the Upper Limit (UL) is derived from the online survey/literature review estimating undeclared catch (Figure 1, green model). It is **preferable to have informed limits**, as raising the UL results in increased predicted total landings (declared and undeclared).

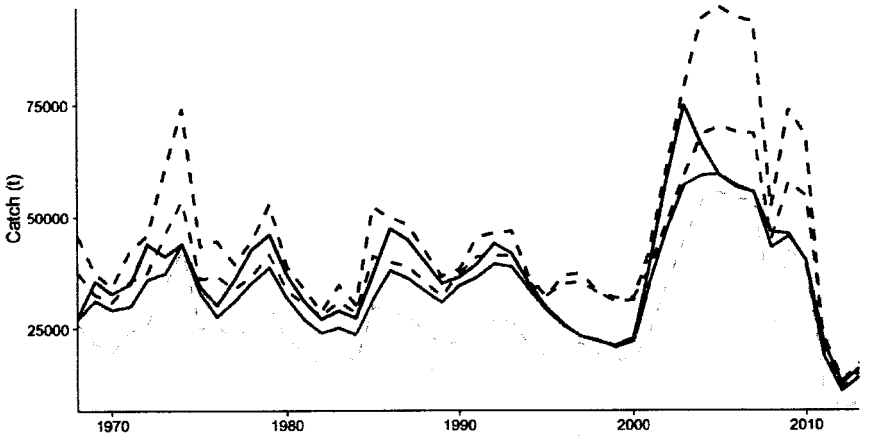


Figure 1 (taken from Doniol-Valcroze et al., 2017 working paper). This shows two variations of the censored model.
The grey dashed line represents declared catches (known data), which form the Lower Limit (LL) of both models.
The pink dashed line is an Upper Limit (UL) where the total (declared+undeclared) catch is arbitrarily determined to be 1.75 x the declared catches. This value reflects results of the 2016 online survey.
The pink solid line represents the best-fitting model between the grey and pink dashed lines.
The green dashed line is an UL that was derived (informed) from the 2016 literature review of bait needs.
The green solid line represents the best-fitting model between the grey and green dashed lines. This is the model that will be used at the 2017 assessment.
Note that the modelled catches (pink and green solid lines) "touch" the corresponding UL (pink and green dashed lines) in several locations in both censored models, which suggests that the UL is an underestimate of the true catch.

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- The model will assume a Beverton-Holt stock-recruitment relationship, including some environmental variation. However, the stock-recruitment relationship is weak, and in this case, the choice of stock-recruitment relationship type (i.e., Ricker, etc.) does not affect the fit of the model very much.
- A couple of agreed-upon changes will be made to the model before the assessment: (1) Natural mortality will be age-specific (higher mortality for younger fish, as was done in the 2014 model) but will be fixed across years. (2) Full recruitment to the fishery will be fixed at age 4-5 based on knowledge of the fish biology and the gear (the best-fitting models predicted that fish don't fully recruit until age 8, but this was not seen as credible).
- The **Limit Reference Point (LRP)** will be 40% B_{msy} (this will be calculated from $F_{40\%}$, assumed to be equivalent to F_{msy}; this was one of three proposed LRP options for Mackerel described in CSAS RD 2014/066) and is one of the recommended options in the Canadian PA framework.

Important Notes

- Primary concern with this stock remains the **uncertainty surrounding the extent of non-reported catches**. Recreational and bait fisheries are as important as the commercial fisheries in some areas, and there are regional differences in how this is reported. There is also the issue that some fish enter the US fishery areas (NAFO 5 and 6) resulting in an unknown, varying proportion of American landings being from the Canadian stock each year.
- An online survey and literature review was performed in 2016 to attempt to quantify undeclared catch of mackerel to produce an Upper Limit (UL) for the new censored model approach. It is likely that **this survey is still underestimating** total landings based on the following:
    a) input from industry at the framework meeting (fishermen's associations not contacted, anecdotes from industry members)
    b) the modeled historical catches press up against the UL at points (seen in Figure 1) suggesting that the UL may be too low; however, if you raise the UL, **total predicted catch continues to increase as UL increases** (Figure 2), so knowing what to set as UL does matter (and thus the UL can't be infinitely large and it must be constrained).

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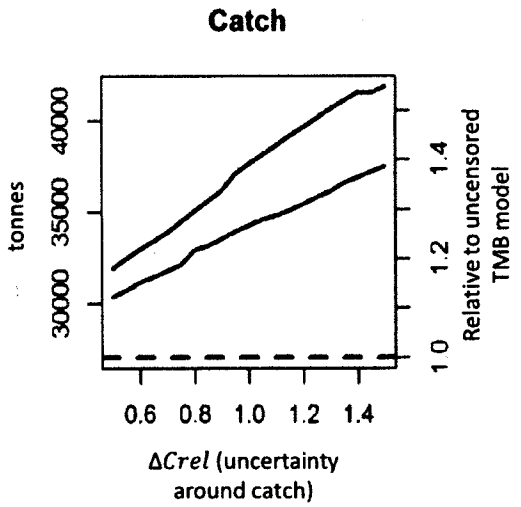


Figure 2 (adapted from Doniol-Valcroze et al., 2017 working paper). The models, whether undeclared catches are estimated by the online survey data (green line) or a constant value of 1.75x (pink line), continue to increase estimates of predicted catch as uncertainty around the catch increases. The uncensored model using only declared catch is represented by a dashed black line.

- Neither the new (2017) or the old (2014) model can adequately model the peaks in the egg survey (i.e., the years in where egg quantity was extremely high). Predicted SSB is always below the egg survey-based index for those years when egg quantity was high. It is possible that the **egg survey samples may be biased**, taken behind the boat in some years, and beside the boat in other years. If taken behind the boat, the egg survey would have been affected by boat turbulence.

Comparison with 2014 Stock Assessment

A major problem with the older assessment, noted at the meeting and described in the SAR (CSAS 2014/030), was that, **after adjusting for the observed retrospective patterns**, the abundance of Mackerel in 2014-2015 was predicted to be only 7532 to 9045 tonnes, less than the annual TAC of 8000 tonnes. The previous advice was based on the low historical F observed during a period of stability (0.087 from 1968 to 1992); when this low F was applied to the low SSB estimate for 2014-2015, the resulting TAC was extremely low. These issues are partially alleviated by the new model , which doesn't require retrospective adjustment.

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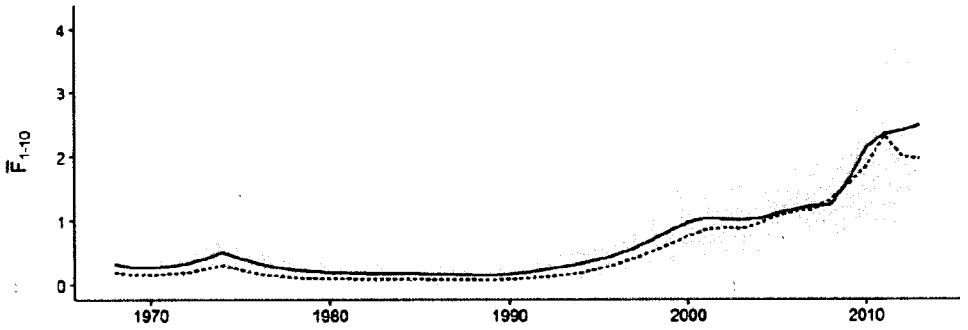


Figure 3 (taken from Doniol-Valcroze et al., 2017 working paper). The model predicts an annual mean historical F (average taken over ages 1 to 10) that increases over time (dotted line). The solid line and surrounding gray areas represents the results of 400 simulations (mean and confidence interval).

The current model estimates that in 2013, stock SSB (red line) **was greater than the estimate from the 2014 model** (black line, see Figure 4 below). Increasing the UL for the censored approach allows the model to estimate a higher catch, which also has the effect of increasing the biomass estimates. This also suggests that if the UL is an underestimate, true stock biomass could be even larger.

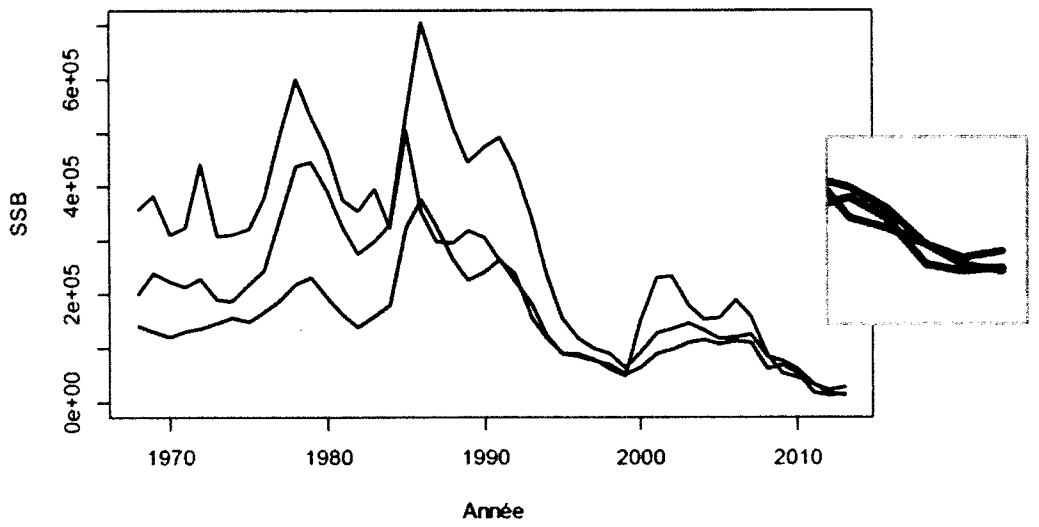


Figure 4 (adapted from Doniol-Valcroze et al., 2017 working paper).
The black line is the spawning stock biomass as predicted in the 2014 assessment. It assumed that declared catches were the only catches.
The blue line is the biomass from the new model, but assuming that declared catches are the only catches.
The red line represents the accepted model, where catch was allowed to vary using censor limits derived from the 2016 online survey and literature review .*

*Please note that this model assumed a fixed M at 0.2 for all ages, and full recruitment only at age 8; these assumptions will change in the March assessment.

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Many fundamental aspects of the old and new models differ, such as process error and decisions about other error structures. These issues cannot be perfectly aligned and so direct comparisons of the models are complicated by these inherent incompatibilities.

TOPIC	NEW APPROACH	OLD APPROACH
Model	• Censored SCA model allows parameters to vary such that true catch may vary from alower limit using declared catches and an upper limit which is an estimate of all catches including bait and recreational. • Tuned with egg survey data (1968-2013). • The most direct comparison to the old approach would be the uncensored version of the model that assumed total catch = declared catch only.	• Combined VPA/SCA approach. • Tuned with shorter time series for egg survey data (1996-2013).
Natural mortality (M)	• Currently fixed at 0.2. • In March it will be age-specific (same as 2014) but fixed across years.	• Age-specific M varies across years.
Limit Reference Point	• 40% B_{msy}	• Three options were proposed in 2015, B_{rec}, 40% B_{msy}, and one derived from stock-recruitment relationship
Retrospective Pattern	• little retrospective pattern	• Medium retrospective pattern that required adjustment

Considerations for EFM

Assessment method: Censored Statistical Catch-at-Age model with limits informed by the literature and online survey conducted in 2016.

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Mechanism of accounting for Uncertainty: The use of upper and lower limits in the censored model, which allows "actual" catch in each year to vary between declared landings, and an upper limit informed by the results of the online survey/literature review to estimate undeclared catch.
U.S. Involvement: NOAA Stock Assessment biologist Kiersten Curti attended, and will attend the March assessment meeting also.
How harvest advice will be provided: The stock biomass projections will be performed under a range of possible F scenarios, to be performed and presented in March. (Risk-based approach)
2016 stock outlook relative to 2014: This information will be presented in March. The Framework meeting used the data available up to 2013 only, to make direct model comparisons between the new approach and the2014 assessment.

Additional Issues

- Industry members posed questions about the **Oceans Protection Program**, and how it can be used to help with mackerel monitoring

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s.16(2)

Krohn, Martha

From: Landry, Jean
Sent: January-27-17 6:20 AM
To: Krohn, Martha; Marentette, Julie
Subject: TR: when is mackerel assesment meeting?
Attachments: Framework assessment mackerel_Memo-DM.DOC

Categories: Red Category

Jean Landry

Director , Fish Population Science
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Jean.Landry@dfo-mpo.gc.ca / Tél. : 613-993-0029

Government of Canada Gouvernement du Canada

Canada

De : de Lafontaine, Yves
Envoyé : 26 janvier 2017 22:10
À : Landry, Jean <Jean.Landry@dfo-mpo.gc.ca>; Swerdfager, Trevor <Trevor.Swerdfager@dfo-mpo.gc.ca>
Cc : McPherson, Arran <Arran.McPherson@dfo-mpo.gc.ca>
Objet : RE: when is mackerel assesment meeting?

Trevor

Please find attached a short briefing note that you may wish to use to inform the DM about last week meeting on Atlantic mackerel assessment framework. Participants agree on the selection and use of a new model to be used for the next stock assessment review to be presented at the early-March meeting.

Regards,

Yves de Lafontaine

Directeur, Direction régionale des Sciences
Pêches et Océans Canada / Gouvernement du Canada
Yves.delafontaine@dfo-mpo.gc.ca Tél. : 418-775-0555 / tél. cell. : [redacted]

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Director, Sciences regional directorate
Fisheries and Oceans Canada / Government of Canada
Yves.delafontaine@dfo-mpo.gc.ca Tel : 418-775-0555 / Cel. : s.16(2)

Ma langue, une question de respect / My language, a matter of respect

De : Landry, Jean
Envoyé : 25 janvier 2017 13:32
À : Swerdfager, Trevor <Trevor.Swerdfager@dfo-mpo.gc.ca>; de Lafontaine, Yves <Yves.deLafontaine@dfo-mpo.gc.ca>
Cc : McPherson, Arran <Arran.McPherson@dfo-mpo.gc.ca>
Objet : RE: when is mackerel assesment meeting?

Yves will be able to add over this as needed. First step (framework assessment) was conducted last week (Jan 18-20). US scientists contributed. One member of FPS also attended. Full assessment of the stock is planned for March 8-9.

Jean Landry

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Directeur, Sciences halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Jean.Landry@dfo-mpo.gc.ca / Tél. : 613-993-0029

Government of Canada / Gouvernement du Canada
Canada

De : Swerdfager, Trevor
Envoyé : 25 janvier 2017 13:18
À : Landry, Jean <Jean.Landry@dfo-mpo.gc.ca>; de Lafontaine, Yves <Yves.deLafontaine@dfo-mpo.gc.ca>
Objet : when is mackerel assesment meeting?

Trevor Swerdfager
Assistant Deputy Minister, Ecosystems and Oceans Science
Sous-ministre adjoint, Sciences des écosystèmes et des océans
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Marentette, Julie

From: Doniol-Valcroze, Thomas
Sent: January-27-17 10:24 AM
To: Marentette, Julie; Duplisea, Daniel; Castonguay, Martin
Cc: Krohn, Martha
Subject: RE: REQUEST: Mackerel Meeting Notes Review
Attachments: Summary 2017 Mackerel Framework Mtg Jan 2017.docx

Follow Up Flag: Follow up
Flag Status: Flagged

Julie,

This an excellent summary of our main findings and discussion, and well expressed in layman terms. I only made a few minor suggestions or corrections. The only point that I think needs be changed is about the historical F (see me changes in the text). The new model will predict a small historical F just as the old one did; this is just because the landings at that time were small relative to the size of the stock and this will be true no matter which model is used. The issue that was discussed at the meeting was about the impact of applying this small F to the current stock size (which had resulted in the TAC recommendation of 800 t). The new model will alleviate this issue a little by predicting a higher SSB in recent years, but this is fundamentally an issue with the choice of F rather than a modelling issue.

Thomas

De : Marentette, Julie
Envoyé : 26 janvier 2017 14:07
À : Duplisea, Daniel; Doniol-Valcroze, Thomas; Castonguay, Martin
Cc : Krohn, Martha
Objet : REQUEST: Mackerel Meeting Notes Review
Importance : Haute

Hi all,

I have been asked to provide more detailed notes on the Mackerel Framework Meeting to higher levels (ADM). **This may need to go up very quickly.**

I've attached my own meeting notes – Please review and provide comments if you have the time. Apologies for the short notice.

Thanks very much!

Best regards,

Julie Marentette, Ph.D.

Science Advisor, Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Julie.Marentette@dfo-mpo.gc.ca /Tel: 613-943-2098

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Conseillère scientifique, Sciences des populations halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Julie.Marentette@dfo-mpo.gc.ca /Tél: 613-943-2098

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Summary of Mackerel Framework Meeting - Notes

January 18-20, 2017

Mont Joli, QC

N.B. These represent individual staff meeting notes and have not been verified through Regional DFO Science representatives. Formal minutes and a report of the meeting will be forthcoming through the Quebec region.

Overview of 2017 Framework Consensus

To be used in March 2017 Assessment

- An online survey of fishermen and a literature review was conducted in 2016 to get an estimate of undeclared Atlantic Mackerel recreational and bait catches.
- In order to address uncertainty around undeclared catch, the 2017 stock assessment will use a censored Statistical Catch-at-Age model, where the model finds the best-fit line between two limits. The Lower Limit (LL) is defined by the declared catch, and the Upper Limit (UL) is derived from the online survey/literature review estimating undeclared catch (Figure 1, green model). It is **preferable to have informed limits**, as raising the UL ~~always~~ results in increased predicted total landings (declared and undeclared).

Comment [TDV1]: I wouldn't say always, as it's just in some years that it goes up with the ceiling.

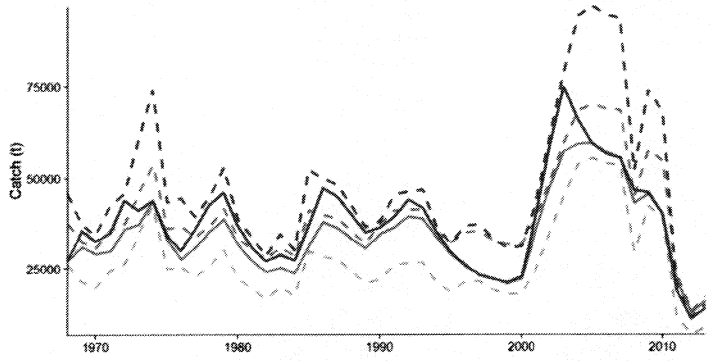


Figure 1 (taken from Doniol-Valcroze et al., 2017 working paper). This shows two variations of the censored model. The grey dashed line represents declared catches (known data), which form the Lower Limit (LL) of both models. The pink dashed line is an Upper Limit (UL) where the total (declared+undeclared) catch is arbitrarily determined to be 1.75 x the declared catches. This value ~~is typical of what you could find in the literature~~reflects results of the 2016 online survey.
The pink solid line represents the best-fitting model between the grey and pink dashed lines.
The green dashed line is an UL that was derived (informed) from the 2016 ~~online survey and~~ literature review of bait needs.

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The green solid line represents the best-fitting model between the grey and green dashed lines. This is the model that will be used at the 2017 assessment.
Note that the modelled catches (pink and green solid lines) "touch" the corresponding UL (pink and green dashed lines) in several locations in both censored models, which suggests that the UL is an underestimate of the true catch.

- The model will assume a Beverton-Holt stock-recruitment relationship, including some environmental variation. However, the stock-recruitment relationship is weak, and in this case, the choice of stock-recruitment relationship type (i.e., Ricker, etc.) does not affect the fit of the model very much.
- A couple of agreed-upon changes will be made to the model before the assessment: (1) ~~Age-specific N~~natural mortality will be age-specific (higher mortality for younger fish, ~~fixed across years~~ as was done in the 2014 model) but will be fixed across years. (2) ~~R~~Full recruitment to the fishery will be fixed at age 4-5 based on knowledge of the fish biology and the gear (the best-fitting models predicted that fish don't fully recruit until age 8, but this was not seen as credible).
- The **Limit Reference Point (LRP)** will be 40% B_{msy} (this will be calculated from $F_{40\%}$, assumed to be equivalent to F_{msy}; this was one of three proposed LRP options for Mackerel described in CSAS RD 2014/066) and is one of the recommended options in the Canadian PA framework.

Important Notes

- Primary concern with this stock remains the **uncertainty surrounding the extent of non-reported catches**. Recreational and bait fisheries are as important as the commercial fisheries in some areas, and there are regional differences in how this is reported. There is also the issue that some fish enter the US fishery areas (NAFO 5 and 6) resulting in an unknown, varying proportion of American landings being from the Canadian stock each year.
- An online survey and literature review was performed in 2016 to attempt to quantify undeclared catch of mackerel to produce an Upper Limit (UL) for the new censored model approach. It is likely that **this survey is still underestimating** total landings based on the following:
    a) input from industry at the framework meeting (fishermen's associations not contacted, anecdotes from industry members)
    b) the modeled historical catches press up against the UL at points (seen in Figure 1) suggesting that the UL may be too low; however, if you raise the UL, **total predicted catch continues to increase as UL increases** (Figure 2), so knowing what to set as UL does matter (and thus the UL can't be infinitely large and it must be constrained).

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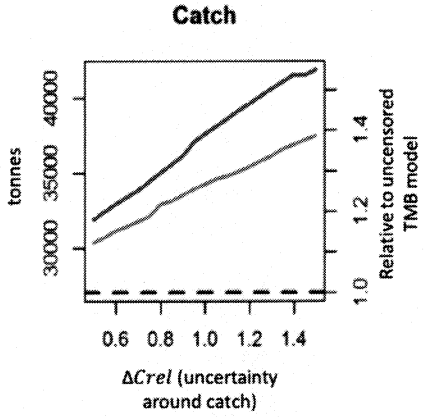


Figure 2 (adapted from Doniol-Valcroze et al., 2017 working paper). The models, whether undeclared catches are estimated by the online survey data (green line) or a constant value of 1.75x (pink line), continue to increase estimates of predicted catch as uncertainty around the catch increases. The uncensored model using only declared catch is represented by a dashed black line.

- Neither the new (2017) or the old (2014) model can adequately model the peaks in the egg survey (i.e., the years in where egg quantity was extremely high). Predicted SSB is always below the egg survey-based index for those years when egg quantity was high. It is possible that the **egg survey samples may be biased**, taken behind the boat in some years, and beside the boat in other years. If taken behind the boat, the egg survey would have been affected by boat turbulence.

Comparison with 2014 Stock Assessment

A major problem with the older assessment, noted at the meeting and described in the SAR (CSAS 2014/030), was ~~that it predicted such a **low historical F** (0.087 from 1968 to 1992)~~ that, **after adjusting for the observed retrospective patterns**, the abundance of Mackerel in 2014-2015 was predicted to be only 7532 to 9045 tonnes, less than the annual TAC of 8000 tonnes. The previous advice was based on the low historical F observed during a period of stability (0.087 from 1968 to 1992); when this low F was applied to the low SSB estimate for 2014-2015, the resulting TAC was extremely low. ~~The~~ These issues are partially alleviated by the new model ~~also predicts a low mean historical F between 1968 and 1992, although it may be larger than 0.087 (Figure 3 below). The new model also~~, which doesn't require retrospective adjustment.

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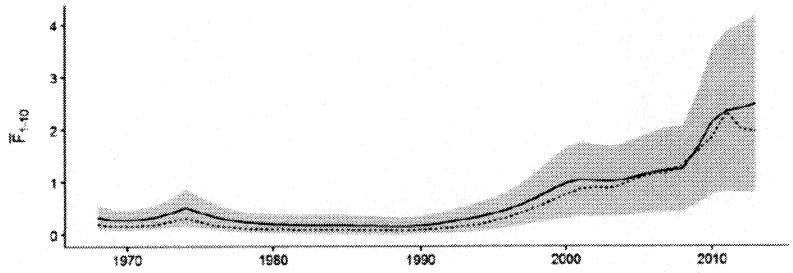


Figure 3 (taken from Doniol-Valcroze et al., 2017 working paper). The model predicts an annual mean historical F (average taken over ages 1 to 10) that increases over time (dotted line). The solid line and surrounding gray areas represents the results of 400 simulations (mean and confidence interval).

The current model estimates that in 2013, stock SSB (red line) **was greater than the estimate from the 2014 model** (black line, see Figure 4 below). Increasing the UL for the censored approach allows the model to estimate a higher catch, which also has the effect of increasing the biomass estimates. This also suggests that if the UL is an underestimate, true stock biomass could be even larger.

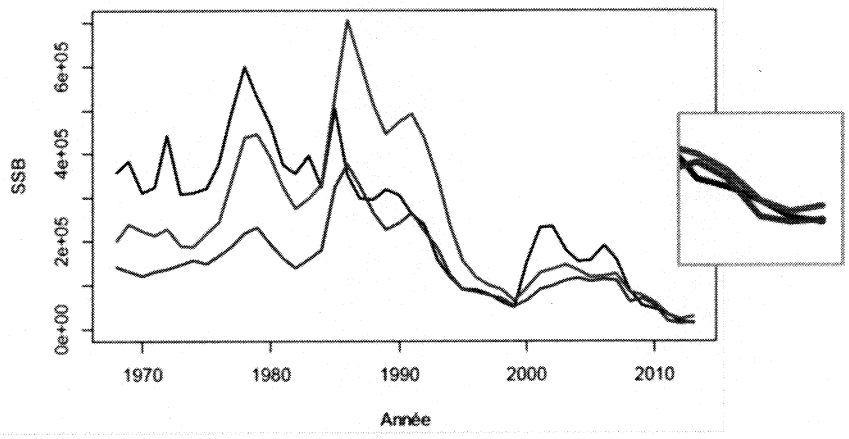


Figure 4 (adapted from Doniol-Valcroze et al., 2017 working paper).
The black line is the spawning stock biomass as predicted in the 2014 assessment. It assumed that declared catches were the only catches.
The blue line is the biomass from the new model, but assuming that declared catches are the only catches.
The red line represents the accepted model, where catch was allowed to vary using censor limits derived from the 2016 online survey and literature review .*

*Please note that this model assumed a fixed M at 0.2 for all ages, and full recruitment only at age 8; these assumptions will change in the March assessment.

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Many fundamental aspects of the old and new models differ, such as process error and decisions about other error structures. These issues cannot be perfectly aligned and so direct comparisons of the models are complicated by these inherent incompatibilities.

TOPIC	NEW APPROACH	OLD APPROACH
Model	• Censored SCA model allows parameters to vary such that true catch may vary from a lower limit using declared catches and an upper limit which is an estimate of all catches including bait and recreational. • Tuned with egg survey data (1968-2013). • The most direct comparison to the old approach would be the uncensored version of the model that assumed total catch = declared catch only.	• Combined VPA/SCA approach. • Tuned with shorter time series for egg survey data (1996-2013).
Natural mortality (M)	• Currently fixed at 0.2. • In March it will be age-specific (same as 2014) but fixed across years ~~(same as 2014)~~.	• Age-specific M ~~but fixed~~varies across years.
Limit Reference Point	• 40% B_{msy}	• Three options were proposed in 2015, B_{rec}, 40% B_{msy}, and one derived from stock-recruitment relationship
Retrospective Pattern	• ~~Very~~ little retrospective pattern	• ~~Strong~~ Medium retrospective pattern that required adjustment

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Considerations for EFM

Assessment method: Censored Statistical Catch-at-Age model with limits informed by the literature and online survey conducted in 2016.

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Mechanism of accounting for Uncertainty: The use of upper and lower limits in the censored model, which allows "actual" catch in each year to vary between declared landings, and an upper limit informed by the results of the online survey/literature review to estimate undeclared catch.
U.S. Involvement: NOAA Stock Assessment biologist Kiersten Curti attended, and will attend the March assessment meeting also.
How harvest advice will be provided: The stock biomass projections will be performed under a range of possible F scenarios, to be performed and presented in March. (Risk-based approach)
2016 stock outlook relative to 2014: This information will be presented in March. The Framework meeting used the data available up to 2013 only, to make direct model comparisons between the new approach and the2014 assessment.

Additional Issues

- Industry members posed questions about the Oceans Protection Program, and how it can be used to help with mackerel monitoring

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Cormier, Mélanie

De: Cawthray, Jenness
Envoyé: 27 janvier 2017 09:27
À: Rivierre, Antoine
Cc: Richard, Josée
Objet: RE: AMAC meeting

Great thanks. We will plan for the Wednesday.

From: Rivierre, Antoine
Sent: January-27-17 9:26 AM
To: Cawthray, Jenness
Cc: Richard, Josée
Subject: RE: AMAC meeting

Hello Jenness
The ferry leaves Maggies island for Souris (PEI) the Tuesday, Thursday and Saturday.
So the best for the meeting would be the Wednesday 29th.

Thank you.

Antoine

De : Cawthray, Jenness
Envoyé : January-26-17 10:43 AM
À : Rivierre, Antoine
Objet : RE: AMAC meeting
Importance : Haute

Hi Antoine,
As there will be folks travelling from the Maggies, will either the Tues(march 28th) or Wed (29th) work better with the ferry schedule.
Thanks!
Jenness

From: Rivierre, Antoine
Sent: January-16-17 1:28 PM
To: Mallet, Pierre; Cawthray, Jenness; Waters, Christa; Dunne, Erin; Doniol-Valcroze, Thomas; Castonguay, Martin
Subject: RE: AMAC meeting

Hi, everyone
Here is a comment I would like to share with you from our sectorial office in Magdalena Island.

Considering the RAP will be held in march, they think that the proposed date for AMAC is too late. According to them, most of fishers in our region will be in preparation for the next fishing season and will not be available to assist to the meeting.

As I'm new to this file too, please do not hesitate to tell me what you think about that.

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Thank you

Antoine

De : Mallet, Pierre
Envoyé : January-16-17 12:57 PM
À : Cawthray, Jenness; Waters, Christa; Dunne, Erin; Rivierre, Antoine; Doniol-Valcroze, Thomas; Castonguay, Martin
Objet : RE: AMAC meeting

Ok with me

From: Cawthray, Jenness
Sent: January-16-17 11:55 AM
To: Waters, Christa; Mallet, Pierre; Dunne, Erin; Rivierre, Antoine; Doniol-Valcroze, Thomas; Castonguay, Martin
Subject: AMAC meeting
Importance: High

Hi All,

Just checking your availability for the AMAC meeting. We are proposing to have this meeting on April 4 or 5, in Halifax. Please let me know if this date works so we can start booking location ASAP. In addition, if I have missed anyone on this list that I should include, please let me know as I am new to this file.

Thomas, will the SAR be available or the results of the new science assessment be available to present for this meeting?

Thank you,

Jenness Cawthray
Senior Fisheries and Aquaculture Management Officer |
Agent principal, Gestion des pêches et de l'aquaculture
Fisheries and Oceans | Pêches et océans
200 rue Kent Street - 13S013 Ottawa, ON, K1A 0E6
Jenness.Cawthray@dfo-mpo.gc.ca
Telephone | Téléphone (613) 998-1524
Facsimile | Télécopieur (613) 990-7051
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Lavallée, Julie (IML)

De: Doniol-Valcroze, Thomas
Envoyé: 27 janvier 2017 18:55
À: de Lafontaine, Yves; Castonguay, Martin
Cc: Gilbert, Michel
Objet: RE: Mackerel advice revision

Merci, Yves. C'est intéressant. Quand on pense que notre dernier avis scientifique recommandait un TAC de 800 tonnes de notre côté, et pour le nord-est Atlantique le TAC recommandé est de 800 000 tonnes !

Thomas

De : de Lafontaine, Yves
Envoyé : 27 janvier 2017 16:50
À : Castonguay, Martin; Doniol-Valcroze, Thomas
Cc : Gilbert, Michel
Objet : TR: Mackerel advice revision

Messieurs,

Vous l'avez peut-être vu, mais je croyais utile de vous transmettre au cas où cela ne serait pas rendu jusqu'à vous.

Yves de Lafontaine

Directeur, Direction régionale des Sciences
Pêches et Océans Canada / Gouvernement du Canada
Yves.delafontaine@dfo-mpo.gc.ca Tél. : 418-775-0555 / tél. cell. : [redacted]

Director, Sciences regional directorate
Fisheries and Oceans Canada / Government of Canada
Yves.delafontaine@dfo-mpo.gc.ca Tel : 418-775-0555 / Cel. : [redacted]

Ma langue, une question de respect
My language, a matter of respect

De : Vézina, Alain
Envoyé : 27 janvier 2017 06:20
À : de Lafontaine, Yves <Yves.deLafontaine@dfo-mpo.gc.ca>
Objet : FW: Mackerel advice revision

Tes gens sont surement au courant mais c' est intéressant de voir qu' ils ont un problème similaire au notre de désaccord entre les relevés d' œufs et les autres indices.

Alain

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From: Advice [mailto:advice@ices.dk]
Sent: Thursday, January 26, 2017 7:18 AM
To: [redacted] NEAFC Info <info@neafc.org>; [redacted] 'mare-scientific-advice@ec.europa.eu' <mare-scientific-advice@ec.europa.eu>; [redacted]
Cc: [redacted] <ACOM@ices.dk>; DL for Delegates <Delegates@ices.dk>; [redacted]
Subject: Mackerel advice revision

Dear all,

Please find attached letter from Lotte Worsøe Clausen and the revision of the advice for 2017 on Northeast Atlantic mackerel that is being released today.

The advice is also available from the ICES website:
http://www.ices.dk/sites/pub/Publication%20Reports/Advice/2016/2016/mac-nea.pdf

Best regards,
Michala Ovens

Michala Ovens
Departmental Secretary Advisory Programme
International Council for the Exploration of the Sea

Email: michala@ices.dk Web: www.ices.dk
Tel: +45 3338 6738 Fax: +45 3393 4215

H.C. Andersens Boulevard 44-46
1553 Copenhagen V. Denmark

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Document available at: http://www.ices.dk/sites/pub/publication%20reports/advice/2016/2016/mac-nea.pdf

Published 30 September 2016
Version 2: 26 January 2017

9.3.39 Mackerel (*Scomber scombrus*) in subareas 1–7 and 14, and in divisions 8.a–e and 9.a (Northeast Atlantic)

ICES stock advice

ICES advises that when the MSY approach is applied, catches in 2017 should be no more than 857 185[†] tonnes.

ICES further advises that the existing measures to protect the North Sea spawning component should remain in place.

Stock development over time

The spawning-stock biomass (SSB) is estimated to have increased since the early 2000s and has been above MSY $B_{trigger}$ since 2009. The fishing mortality (F) has been declining from high levels in the mid-2000s but remains above F_{MSY}. There has been a succession of large year classes since the early 2000s (2002, 2006, 2011, and 2014) and all year classes since 2005 (except for the 2013 year class) are estimated to be above average.

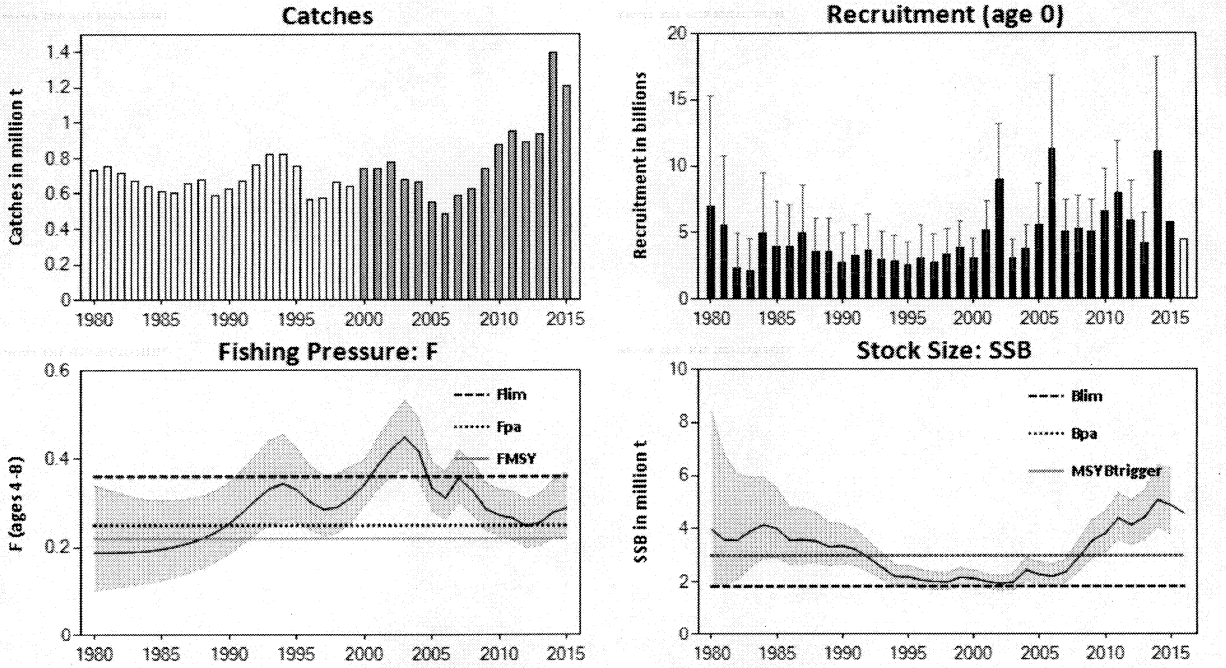


Figure 9.3.39.1 Mackerel in subareas 1–7 and 14, and in divisions 8.a–e and 9.a. Summary of stock assessment. The unshaded catches prior to 2000 are the years that have been down-weighted in the assessment because of the considerable underreporting that is suspected to have taken place. The recruitment value for 2015 is from RCT3 and the unshaded recruitment value for 2016 is the geometric mean of 1990–2014. Confidence intervals (95%) are included in the recruitment, fishing mortality, and spawning-stock biomass plots. [‡]

[†] Version 2: value corrected. The IESSNS index was incorrectly calculated in the 2016 mackerel assessment. This advice is based on the corrected 2016 assessment. The correction results in a 7% downwards revision of the SSB value in 2016 and a 10% upwards revision of the F value in 2015 relative to the advice released in September 2016. Applying the MSY approach results in a 9% downwards revision of the catch advice for 2017.

[‡] Version 2: plots updated to reflect the corrected assessment.

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Pages 450 to / à 462

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s.19(1)

Cormier, Mélanie

De: Castonguay, Martin
Envoyé: 31 janvier 2017 13:37
À: Doniol-Valcroze, Thomas; Rivierre, Antoine
Objet: RE: AMAC list for review

Suggère leurs noms à tout le groupe en indiquant pourquoi ils devraient être présents.

Martin

De : Doniol-Valcroze, Thomas
Envoyé : 31 janvier 2017 13:23
À : Castonguay, Martin; Rivierre, Antoine
Objet : RE: AMAC list for review

C'est sûr que [redacted] va vouloir être présent. Et [redacted] qui nous a envoyé des données très intéressantes sur les appâts dans les journaux de bord de homard.

Quelle est la marche à suivre : est-ce qu'on les suggère à Jenness?

Thomas

De : Castonguay, Martin
Envoyé : 31 janvier 2017 12:02
À : Rivierre, Antoine; Doniol-Valcroze, Thomas
Objet : RE: AMAC list for review

Antoine et Thomas,

Faudrait s'assurer que les gens de l'Industrie présents à la réunion de janvier soient tous invités au AMAC.

Martin

De : Cawthray, Jenness
Envoyé : 31 janvier 2017 11:54
À : Dunne, Erin; Doniol-Valcroze, Thomas; Rivierre, Antoine; Drapeau, André; Waters, Christa; Castonguay, Martin; Mallet, Pierre; Lester, Brian
Objet : AMAC list for review
Importance : Haute

Hello Everyone,

Please review attached Stakeholder list and let me know if we need to add/delete names for this list.
Tentative date is March 30th. Once we have venue secured, I will proceed with sending out the invitation to AMAC.

Thank you,

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Jenness Cawthray
Senior Fisheries and Aquaculture Management Officer |
Agent principal, Gestion des pêches et de l'aquaculture
Fisheries and Oceans | Pêches et océans
200 rue Kent Street - 13S013 Ottawa, ON, K1A 0E6
Jenness.Cawthray@dfo-mpo.gc.ca
Telephone | Téléphone (613) 998-1524
Facsimile | Télécopieur (613) 990-7051
Government of Canada | Gouvernement du Canada

From: Browne, Ryan
Sent: January-31-17 11:49 AM
To: Cawthray, Jenness
Subject: Updated AMAC list

Updated!

Ryan Browne

Administrative Assistant, Resource Management
Fisheries and Oceans Canada / Government of Canada
ryan.browne@dfo-mpo.gc.ca / Tel: 613-991-1833

Adjoint Administratif, Gestion intégrée des ressources
Pêches et Océans Canada / Gouvernement du Canada
ryan.browne@dfo-mpo.gc.ca / Tél. : 613-991-1833

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s.19(1)

Cormier, Mélanie

De: Cawthray, Jenness
Envoyé: 31 janvier 2017 13:35
À: Drapeau, André
Cc: Rivierre, Antoine
Objet: RE: AMAC list for review

Thank you André!

From: Drapeau, André
Sent: January-31-17 1:34 PM
To: Cawthray, Jenness
Cc: Rivierre, Antoine
Subject: RE: AMAC list for review

Bonjour Jenness,

Après vérification, voici les modifications que nous souhaiterions apporter à la liste de distribution :

Pour le ***MPO***, svp ajouter les courriels de Mme Magalie Hardy, M. Mathieu Morin, Mme Suzie Boudreau

IDM
Toutes les associations des Îles sont listées et les adresses semblent ok. J'aimerais toutefois rajouter les représentants suivants :

- [redacted] président RPPCI [redacted]
- [redacted] représentant RPPCI [redacted]
- [redacted] président Inshore [redacted]

Gaspé

- [redacted]
- [redacted] (RPPNG) [redacted]
- [redacted] (ACPG)
- AMG [redacted]
- ACG [redacted]
- Listuguj (ils devraient être dans la liste de l'AMAC) [redacted]
- Gespeg (ils devraient être dans la liste de l'AMAC) [redacted]
- AGHAMM [redacted]

Merci
AD

De : Cawthray, Jenness
Envoyé : 31 janvier 2017 11:54
À : Dunne, Erin; Doniol-Valcroze, Thomas; Rivierre, Antoine; Drapeau, André; Waters, Christa; Castonguay, Martin; Mallet, Pierre; Lester, Brian
Objet : AMAC list for review
Importance : Haute

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Thank you,

Jenness Cawthray
Senior Fisheries and Aquaculture Management Officer |
Agent principal, Gestion des pêches et de l'aquaculture
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200 rue Kent Street - 13S013 Ottawa, ON, K1A 0E6
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Telephone | Téléphone (613) 998-1524
Facsimile | Télécopieur (613) 990-7051
Government of Canada | Gouvernement du Canada

From: Browne, Ryan
Sent: January-31-17 11:49 AM
To: Cawthray, Jenness
Subject: Updated AMAC list

Updated!

Ryan Browne

Administrative Assistant, Resource Management
Fisheries and Oceans Canada / Government of Canada
ryan.browne@dfo-mpo.gc.ca / Tel: 613-991-1833

Adjoint Administratif, Gestion intégrée des ressources
Pêches et Océans Canada / Gouvernement du Canada
ryan.browne@dfo-mpo.gc.ca / Tél. : 613-991-1833

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Cormier, Mélanie

De: Dunne, Erin
Envoyé: 31 janvier 2017 10:24
À: Cawthray, Jenness; Mallet, Pierre; Castonguay, Martin; Rivierre, Antoine; Waters, Christa; Doniol-Valcroze, Thomas
Cc: Lester, Brian
Objet: Re: AMAC meeting

I am available.

Sent from my BlackBerry 10 smartphone on the Bell network.

From: Cawthray, Jenness
Sent: Tuesday, January 31, 2017 11:46 AM
To: Mallet, Pierre; Castonguay, Martin; Rivierre, Antoine; Waters, Christa; Dunne, Erin; Doniol-Valcroze, Thomas
Cc: Lester, Brian
Subject: RE: AMAC meeting

Can we do Thursday, March 30th in Halifax? Please let me know ASAP so we can confirm the room.
Thanks!
Jenness

From: Mallet, Pierre
Sent: January-30-17 2:19 PM
To: Castonguay, Martin; Cawthray, Jenness; Rivierre, Antoine; Waters, Christa; Dunne, Erin; Doniol-Valcroze, Thomas
Subject: RE: AMAC meeting

Hi

The MFU have their annual meeting march 27-28-29. This is not good dates for them.

Thanks

From: Castonguay, Martin
Sent: January-30-17 12:56 PM
To: Cawthray, Jenness; Rivierre, Antoine; Mallet, Pierre; Waters, Christa; Dunne, Erin; Doniol-Valcroze, Thomas
Subject: RE: AMAC meeting

Hi Jenness,

Do we have a firm date yet and location yet?

Martin

Martin Castonguay, Ph.D.
Chercheur et Chef de section Sciences pélagiques /
Research scientist Head of Pelagic science section
Institut Maurice-Lamontagne
Pêches et Océans Canada / Fisheries and Oceans Canada

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850 route de la mer, C.P. 1000,
Mont-Joli, Québec,
Canada G5H 3Z4

Tel 1 418 775 0634
Fax 1 418 775 0740
martin.castonguay@dfo-mpo.gc.ca

De : Cawthray, Jenness
Envoyé : 17 janvier 2017 08:32
À : Rivierre, Antoine; Mallet, Pierre; Waters, Christa; Dunne, Erin; Doniol-Valcroze, Thomas; Castonguay, Martin
Objet : RE: AMAC meeting
Importance : Haute

Thanks Antoine for your feedback. Is there any opposition to moving the meeting to March 28 or 29 in Halifax? Thomas, will science be ready to present the results of the SAR at this time. Can we provide an advance copy of the SAR or perhaps a high level PowerPoint summary of the results would be useful.
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From: Rivierre, Antoine
Sent: January-16-17 1:28 PM
To: Mallet, Pierre; Cawthray, Jenness; Waters, Christa; Dunne, Erin; Doniol-Valcroze, Thomas; Castonguay, Martin
Subject: RE: AMAC meeting

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Thank you

Antoine

De : Mallet, Pierre
Envoyé : January-16-17 12:57 PM
À : Cawthray, Jenness; Waters, Christa; Dunne, Erin; Rivierre, Antoine; Doniol-Valcroze, Thomas; Castonguay, Martin
Objet : RE: AMAC meeting

Ok with me

From: Cawthray, Jenness
Sent: January-16-17 11:55 AM
To: Waters, Christa; Mallet, Pierre; Dunne, Erin; Rivierre, Antoine; Doniol-Valcroze, Thomas; Castonguay, Martin

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Subject: AMAC meeting
Importance: High

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Thank you,

Jenness Cawthray
Senior Fisheries and Aquaculture Management Officer |
Agent principal, Gestion des pêches et de l'aquaculture
Fisheries and Oceans | Pêches et océans
200 rue Kent Street - 13S013 Ottawa, ON, K1A 0E6
Jenness.Cawthray@dfo-mpo.gc.ca
Telephone | Téléphone (613) 998-1524
Facsimile | Télécopieur (613) 990-7051
Government of Canada | Gouvernement du Canada

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Cormier, Mélanie

De: Castonguay, Martin
Envoyé: 31 janvier 2017 10:19
À: Cawthray, Jenness; Mallet, Pierre; Rivierre, Antoine; Waters, Christa; Dunne, Erin; Doniol-Valcroze, Thomas
Cc: Lester, Brian
Objet: RE: AMAC meeting

Good for me!

De : Cawthray, Jenness
Envoyé : 31 janvier 2017 10:17
À : Mallet, Pierre; Castonguay, Martin; Rivierre, Antoine; Waters, Christa; Dunne, Erin; Doniol-Valcroze, Thomas
Cc : Lester, Brian
Objet : RE: AMAC meeting
Importance : Haute

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Subject: RE: AMAC meeting

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Martin

Martin Castonguay, Ph.D.
Chercheur et Chef de section Sciences pélagiques /
Research scientist Head of Pelagic science section
Institut Maurice-Lamontagne
Pêches et Océans Canada / Fisheries and Oceans Canada
850 route de la mer, C.P. 1000,

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Mont-Joli, Québec,
Canada G5H 3Z4

Tel 1 418 775 0634
Fax 1 418 775 0740
martin.castonguay@dfo-mpo.gc.ca

De : Cawthray, Jenness
Envoyé : 17 janvier 2017 08:32
À : Rivierre, Antoine; Mallet, Pierre; Waters, Christa; Dunne, Erin; Doniol-Valcroze, Thomas; Castonguay, Martin
Objet : RE: AMAC meeting
Importance : Haute

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Thanks!
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To: Mallet, Pierre; Cawthray, Jenness; Waters, Christa; Dunne, Erin; Doniol-Valcroze, Thomas; Castonguay, Martin
Subject: RE: AMAC meeting

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Thank you

Antoine

De : Mallet, Pierre
Envoyé : January-16-17 12:57 PM
À : Cawthray, Jenness; Waters, Christa; Dunne, Erin; Rivierre, Antoine; Doniol-Valcroze, Thomas; Castonguay, Martin
Objet : RE: AMAC meeting

Ok with me

From: Cawthray, Jenness
Sent: January-16-17 11:55 AM
To: Waters, Christa; Mallet, Pierre; Dunne, Erin; Rivierre, Antoine; Doniol-Valcroze, Thomas; Castonguay, Martin
Subject: AMAC meeting
Importance: High

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Thank you,

Jenness Cawthray
Senior Fisheries and Aquaculture Management Officer |
Agent principal, Gestion des pêches et de l'aquaculture
Fisheries and Oceans | Pêches et océans
200 rue Kent Street - 13S013 Ottawa, ON, K1A 0E6
Jenness.Cawthray@dfo-mpo.gc.ca
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Cormier, Mélanie

De: Doniol-Valcroze, Thomas
Envoyé: 31 janvier 2017 10:18
À: Cawthray, Jenness; Mallet, Pierre; Castonguay, Martin; Rivierre, Antoine; Waters, Christa; Dunne, Erin
Cc: Lester, Brian
Objet: RE: AMAC meeting

Works for me.

Thomas

De : Cawthray, Jenness
Envoyé : 31 janvier 2017 10:17
À : Mallet, Pierre; Castonguay, Martin; Rivierre, Antoine; Waters, Christa; Dunne, Erin; Doniol-Valcroze, Thomas
Cc : Lester, Brian
Objet : RE: AMAC meeting
Importance : Haute

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Subject: RE: AMAC meeting

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Canada G5H 3Z4

Tel 1 418 775 0634
Fax 1 418 775 0740
martin.castonguay@dfo-mpo.gc.ca

De : Cawthray, Jenness
Envoyé : 17 janvier 2017 08:32
À : Rivierre, Antoine; Mallet, Pierre; Waters, Christa; Dunne, Erin; Doniol-Valcroze, Thomas; Castonguay, Martin
Objet : RE: AMAC meeting
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Envoyé : January-16-17 12:57 PM
À : Cawthray, Jenness; Waters, Christa; Dunne, Erin; Rivierre, Antoine; Doniol-Valcroze, Thomas; Castonguay, Martin
Objet : RE: AMAC meeting

Ok with me

From: Cawthray, Jenness
Sent: January-16-17 11:55 AM

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To: Waters, Christa; Mallet, Pierre; Dunne, Erin; Rivierre, Antoine; Doniol-Valcroze, Thomas; Castonguay, Martin
Subject: AMAC meeting
Importance: High

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À: Cawthray, Jenness; Mallet, Pierre; Castonguay, Martin; Rivierre, Antoine; Dunne, Erin; Doniol-Valcroze, Thomas
Cc: Lester, Brian
Objet: RE: AMAC meeting

Good for me.
C

Christa Waters
Regional Senior Fisheries Management Advisor
Resource Management | Gestion des Pêches
Maritimes Region | Région des Maritimes
Telephone | Téléphone 902-293-6541

From: Cawthray, Jenness
Sent: January 31, 2017 11:17 AM
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Envoyé : January-16-17 12:57 PM

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À : Cawthray, Jenness; Waters, Christa; Dunne, Erin; Rivierre, Antoine; Doniol-Valcroze, Thomas; Castonguay, Martin
Objet : RE: AMAC meeting

Ok with me

From: Cawthray, Jenness
Sent: January-16-17 11:55 AM
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Mallet, Pierre

From: Cawthray, Jenness
Sent: January-31-17 12:54 PM
To: Dunne, Erin; Doniol-Valcroze, Thomas; Rivierre, Antoine; Drapeau, André; Waters, Christa; Castonguay, Martin; Mallet, Pierre; Lester, Brian
Subject: AMAC list for review
Attachments: Atlantic Mackerel Advisory Committee Members - 2016

Importance: High

Hello Everyone,

Please review attached Stakeholder list and let me know if we need to add/delete names for this list.
Tentative date is March 30th. Once we have venue secured, I will proceed with sending out the invitation to AMAC.

Thank you,

Jenness Cawthray
Senior Fisheries and Aquaculture Management Officer |
Agent principal, Gestion des pêches et de l'aquaculture
Fisheries and Oceans | Pêches et océans
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Facsimile | Télécopieur (613) 990-7051
Government of Canada | Gouvernement du Canada

From: Browne, Ryan
Sent: January-31-17 11:49 AM
To: Cawthray, Jenness
Subject: Updated AMAC list

Updated!

Ryan Browne

Administrative Assistant, Resource Management
Fisheries and Oceans Canada / Government of Canada
ryan.browne@dfo-mpo.gc.ca / Tel: 613-991-1833

Adjoint Administratif, Gestion intégrée des ressources
Pêches et Océans Canada / Gouvernement du Canada
ryan.browne@dfo-mpo.gc.ca / Tél. : 613-991-1833

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Mallet, Pierre

Contact Group Name: Atlantic Mackerel Advisory Committee Members - 2016

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s.19(1)

Members:

[redacted]
Assoc. des Senneurs du Golfe [redacted]
Atlantic Herring Co-op [redacted]

[redacted] [redacted]
[redacted] (Independent Fish Harvesters Association)

[redacted] [redacted]
Benchabane, Samir Samir.Benchabane@mapaq.gouv.qc.ca

[redacted] [redacted]
[redacted] - Assoc. of inshore Fishermen of Magdalen Islands
inshorefishermen@hotmail.com

[redacted] [redacted]
Castonguay, Martin Martin.Castonguay@dfo-mpo.gc.ca
Cawthray, Jenness cawthrayj.Cawthray@dfo-mpo.gc.ca
Chandler, Alan chandlea@gov.ns.ca
[redacted] - Regroupement des Palangriers et Petoncliers Uniques Madelinots
rppum@tlb.sympatico.ca

[redacted] [redacted]
[redacted] Regroupement des pecheurs professionnels du Sud de la Gaspesie
rppsg@globetrotter.net

[redacted] [redacted]
Corbett, Frank (Nfld-Policy) Frank.Corbett@dfo-mpo.gc.ca
[redacted] - Regroupement des Pecheurs Professionnels des Iles
rppim@tlb.sympatico.ca

[redacted] [redacted]
Cronk, Ronald Ronald.CRONK@gnb.ca
Cuddy, Lori Lori.Cuddy@dfo-mpo.gc.ca
[redacted] capebreeze@ns.aliantzinc.ca
[redacted] Assoc. des Pecheurs Proprietaires des Iles
appim@tlb.sympatico.ca
Desrosiers, Denis Denis.Desrosiers@mapaq.gouv.qc.ca
Doniol-Valcroze, Thomas Thomas.Doniol-Valcroze@dfo-mpo.gc.ca
Dooley, Tom tdooley@gov.nf.ca
Drapeau, André Andre.Drapeau@dfo-mpo.gc.ca
Dunne, Erin Erin.Dunne@dfo-mpo.gc.ca
Dwyer, Alan Alan.Dwyer@dfo-mpo.gc.ca
Fillion, Diana Diana.Fillion@dfo-mpo.gc.ca

[redacted] [redacted]
Gulf Nova Scotia Bonafide Fishermen's Assoc.
gulfbonafide@gmail.com

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Gulf Nova Scotia Fishermen's Coalition	
	micmac@globetrotter.net
Johnston, Marc	Marc.johnston@gnb.ca
- Assoc. des pêcheurs polyvalents de Old Fort à Blanc-Sablon	
Kerr, Helen	Helen.Kerr@dfo-mpo.gc.ca
Kerwin, Jessica	Jessica.Kerwin@dfo-mpo.gc.ca
- Regroupement des Pecheurs professionnels de la Haute et Moyenne Cote-Nord Inc.	
	rpphmcn@globetrotter.net
LeCouffe, Marc	Marc.LeCouffe@dfo-mpo.gc.ca
Lester, Brian (HQ)	Brian.Lester@dfo-mpo.gc.ca
MacEwen, Dave	dgmacewen@gov.pe.ca
	office@peispa.com
MacIsaac, Colin	Colin.MacIsaac@dfo-mpo.gc.ca
Mallet, Pierre	Pierre.Mallet@dfo-mpo.gc.ca
Maritimes Fishermen Union	shediac@mfu-upm.com
Micmacs of Gesgapegiag Band Council	
Morisset, Jean	Jean.Morisset@dfo-mpo.gc.ca
	gmfa@nb.aibn.com
Nadeau, Paul	nadeau.p@globetrotter.net
Naud, Marc	Marc.Naud@dfo-mpo.gc.ca
Niang, Aziz	Aziz.niang@mapaq.gouv.qc.ca
Northumberland Fishermen's Assoc.	
PEI Fishermen's Assoc.	managerpeifa@pei.eastlink.ca
Peters, Gerard	Gerard.Peters@dfo-mpo.gc.ca
Quinn, Frank	Frank.Quinn@dfo-mpo.gc.ca
Regroupement des Pêcheurs et Pêcheuses du cote des Iles	
	rppci@tlb.sympatico.ca
Richard, Josée	Josee.Richard@dfo-mpo.gc.ca
Maritimes fishermen's Association	
Riche, Joseph (Grand Chief - Innu Nation)	
Rivierre, Antoine	Antoine.Rivierre@dfo-mpo.gc.ca
Ruest, Richard	Richard.Ruest@dfo-mpo.gc.ca
Simms, Jason	Jason.Simms@dfo-mpo.gc.ca
-Agence Mamu Innu Kaikusseht (AMIK)	
(Barry Group)	

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s.19(1)

Sullivan, Keith	president@ffaw.net
The Native Council of PEI	[redacted]
The Netukulimkewe'l Commission	netcomm@ncnsnetcomm.ns.ca
The New Brunswick Aboriginal Peoples Council	
	[redacted]
Waters, Christa	Christa.Waters@dfo-mpo.gc.ca
Waters, Christa (MAR)	Christa.Waters@dfo-mpo.gc.ca
[redacted]	[redacted]

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s.19(1)

Cormier, Mélanie

De: Doniol-Valcroze, Thomas
Envoyé: 1 février 2017 09:03
À: Rivierre, Antoine
Objet: RE: AMAC list for review

Antoine,

C'est noté.

Thomas

De : Rivierre, Antoine
Envoyé : 1 février 2017 01:35
À : Castonguay, Martin; Doniol-Valcroze, Thomas
Cc : Drapeau, André
Objet : RE:AMAC list for review

Bonjour Martin et Thomas.

Vous avez certainement noté qu'André Drapeau me remplace. Concernant le groupe de travail c'est donc lui qui sera présent pour la GR. Nous avons pris le temps de faire le tour ensemble des différents sujets à l'agenda, et je lui ai fait un compte rendu des discussion qui ont lieu lors de la revue du cadre d'évaluation.

Pour la liste de distribution, le directeur du RPPSG et qui travaille en collaboration est déjà dans la liste. Pour l'acheteur des Maritimes, je vous invite à suggérer son nom si ce n'est pas déjà fait.

à bientôt

Antoine

De : Castonguay, Martin
Envoyé : mardi 31 janvier 2017 12:01
À : Rivierre, Antoine; Doniol-Valcroze, Thomas
Objet : RE: AMAC list for review

Antoine et Thomas,

Faudrait s'assurer que les gens de l'Industrie présents à la réunion de janvier soient tous invités au AMAC.

Martin

De : Cawthray, Jenness
Envoyé : 31 janvier 2017 11:54
À : Dunne, Erin; Doniol-Valcroze, Thomas; Rivierre, Antoine; Drapeau, André; Waters, Christa; Castonguay, Martin; Mallet, Pierre; Lester, Brian
Objet : AMAC list for review
Importance : Haute

Document Released Under the Access to Information Act / Document divulgué en vertu de la Loi sur l'accès à l'information.

Hello Everyone,

Please review attached Stakeholder list and let me know if we need to add/delete names for this list.
Tentative date is March 30th. Once we have venue secured, I will proceed with sending out the invitation to AMAC.

Thank you,

Jenness Cawthray
Senior Fisheries and Aquaculture Management Officer |
Agent principal, Gestion des pêches et de l'aquaculture
Fisheries and Oceans | Pêches et océans
200 rue Kent Street - 13S013 Ottawa, ON, K1A 0E6
Jenness.Cawthray@dfo-mpo.gc.ca
Telephone | Téléphone (613) 998-1524
Facsimile | Télécopieur (613) 990-7051
Government of Canada | Gouvernement du Canada

From: Browne, Ryan
Sent: January-31-17 11:49 AM
To: Cawthray, Jenness
Subject: Updated AMAC list

Updated!
Ryan Browne
Administrative Assistant, Resource Management
Fisheries and Oceans Canada / Government of Canada
ryan.browne@dfo-mpo.gc.ca / Tel: 613-991-1833

Adjoint Administratif, Gestion intégrée des ressources
Pêches et Océans Canada / Gouvernement du Canada
ryan.browne@dfo-mpo.gc.ca / Tél. : 613-991-1833

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s.19(1)

Cormier, Mélanie

De: Castonguay, Martin
Envoyé: 1 février 2017 09:12
À: Rivierre, Antoine; Doniol-Valcroze, Thomas
Cc: Drapeau, André
Objet: RE: AMAC list for review

Antoine,

Merci de tes suggestions

Martin

De : Rivierre, Antoine
Envoyé : 1 février 2017 01:35
À : Castonguay, Martin; Doniol-Valcroze, Thomas
Cc : Drapeau, André
Objet : RE:AMAC list for review

Bonjour Martin et Thomas.

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À : Rivierre, Antoine; Doniol-Valcroze, Thomas
Objet : RE: AMAC list for review

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Martin

De : Cawthray, Jenness
Envoyé : 31 janvier 2017 11:54
À : Dunne, Erin; Doniol-Valcroze, Thomas; Rivierre, Antoine; Drapeau, André; Waters, Christa; Castonguay, Martin; Mallet, Pierre; Lester, Brian
Objet : AMAC list for review
Importance : Haute

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200 rue Kent Street - 13S013 Ottawa, ON, K1A 0E6
Jenness.Cawthray@dfo-mpo.gc.ca
Telephone | Téléphone (613) 998-1524
Facsimile | Télécopieur (613) 990-7051
Government of Canada | Gouvernement du Canada

From: Browne, Ryan
Sent: January-31-17 11:49 AM
To: Cawthray, Jenness
Subject: Updated AMAC list

Updated!
Ryan Browne
Administrative Assistant, Resource Management
Fisheries and Oceans Canada / Government of Canada
ryan.browne@dfo-mpo.gc.ca / Tel: 613-991-1833

Adjoint Administratif, Gestion intégrée des ressources
Pêches et Océans Canada / Gouvernement du Canada
ryan.browne@dfo-mpo.gc.ca / Tél. : 613-991-1833

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Thomas, Tashina

From: Mallet, Pierre
Sent: February-01-17 8:25 AM
To: Thomas, Tashina
Subject: FW: large and small agenda

Follow Up Flag: Follow up
Flag Status: Flagged

Categories: Red Category

From: Kerwin, Jessica
Sent: January-31-17 2:58 PM
To: Hardy, Matthew A (Moncton); Mallet, Pierre; Penney, Kim; Seguna Marvin at MSDEC-DFA; Rivierre, Antoine; Drapeau, André; Taylor, Peter; Ward, Chad; McDaniel, Matthew; Sylvestre, Jean-François; Castonguay, Martin; Doniol-Valcroze, Thomas; Melvin, Gary D; Hanke, Alex; Boulay, Stéphane; Waters, Christa; Drewes, Mathew C
Subject: large and small agenda

Here is the agenda for Montreal next week:



agenda.docx

Here is the SMB proposal for discussion:



SMB mobility proposal.pdf

We will have a conference line set up – will get back to everyone with the call in info

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SMALL AND LARGE PELAGICS

February 7-9, 2016

MONTREAL, QUEBEC

February 7, 2016 (9:00-5:00pm) – SMALL PELAGICS

a)Mackerel

- Science

-Regional updates

- C&P updates

-TAC for 2017

- monitoring

- provincial shares

- >65' (exploratory) license issuance – 2017

- CESD audit – rebuilding plan

- IFMP

b) Herring

Regional updates

c) Capelin

Regional updates

February 8, 2016 (9am-5pm) – CATCH MONITORING

a) Tuna assessments

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February 9, 2016 (9am-5pm) – TUNA

1. C&P
    a. Updates from regions
    b. Camera update (presentation 30min)

2. Regional roundtable - RM
3. TAC for 2017
4. Sinking boats protocol
5. Ordering of tags – Jess will order for 2017 season
6. eBCD update (JESS)
7. Mexico transfer update
8. SMB proposal and future permanent transfer to PLL
9. Quota report
10. License conditions for 2017– see LC attachment
11. ICCAT adopted 16-04 – observer coverage
12. CHP review working group
13. IFMP update

CHARTER

a) Charter training (week of April 3rd)
b) Fleet proposal
c) License conditions – see attachment for list of LCs

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ALPAC

a)March 14-15 2017 (march 14th am for FN, 1pm ALAPC) - Halifax, Nova Scotia

b)Issues for discussion at ALPAC - MPAs

- IUU import regulation in the US

- US Marine Mammal regulations

OTHER

a)Roles and responsibility Region Vs National

Pages 492 to / à 495

are not relevant

sont non pertinentes

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s.16(2)

Cormier, Mélanie

De: Drapeau, André
Envoyé: 2 février 2017 13:09
À: Rivierre, Antoine
Objet: TR: when is mackerel assesment meeting?
Pièces jointes: Framework assessment mackerel_Memo-DM.DOC

PTI

Je l'ai classé dans : G:\Gp\Gr\Pélagique\Petit pélagique\Maquereau (8350-016)\Mémo

De : Gros-Louis, Denis
Envoyé : 30 janvier 2017 10:12
À : Drapeau, André
Cc : Boudreau, Suzie
Objet : TR: when is mackerel assesment meeting?

Pour votre information et suivis.

Merci,

Denis

De : Vincent, Patrick
Envoyé : 27 janvier 2017 07:07
À : Lemire, Maryse <Maryse.Lemire@dfo-mpo.gc.ca>; Gros-Louis, Denis <Denis.Gros-Louis@dfo-mpo.gc.ca>
Objet : Tr: when is mackerel assesment meeting?

Pour votre info

Envoyé de mon smartphone BlackBerry 10 sur le réseau Rogers.

De: de Lafontaine, Yves <Yves.deLafontaine@dfo-mpo.gc.ca>
Envoyé: jeudi 26 janvier 2017 22:11
À: Vincent, Patrick
Objet: TR: when is mackerel assesment meeting?

Patrick

Pour ton info. Court résumé de la dernière réunion sur le maquereau tenue à l'IML la semaine dernière.

Yves de Lafontaine

Directeur, Direction régionale des Sciences
Pêches et Océans Canada / Gouvernement du Canada
Yves.delafontaine@dfo-mpo.gc.ca Tél. : 418-775-0555 / tél. cell. [redacted]

Document Released Under the Access to Information Act / Document divulgué en vertu de la s.16(2) sur l'accès à l'information.

Director, Sciences regional directorate
Fisheries and Oceans Canada / Government of Canada
Yves.delafontaine@dfo-mpo.gc.ca Tel : 418-775-0555 / Cel. : [redacted]

Ma langue, une question de respect / My language, a matter of respect

De : de Lafontaine, Yves
Envoyé : 26 janvier 2017 22:10
À : Landry, Jean <Jean.Landry@dfo-mpo.gc.ca>; Swerdfager, Trevor <Trevor.Swerdfager@dfo-mpo.gc.ca>
Cc : McPherson, Arran <Arran.McPherson@dfo-mpo.gc.ca>
Objet : RE: when is mackerel assesment meeting?

Trevor

Please find attached a short briefing note that you may wish to use to inform the DM about last week meeting on Atlantic mackerel assessment framework. Participants agree on the selection and use of a new model to be used for the next stock assessment review to be presented at the early-March meeting.

Regards,

Yves de Lafontaine

Directeur, Direction régionale des Sciences
Pêches et Océans Canada / Gouvernement du Canada
Yves.delafontaine@dfo-mpo.gc.ca Tél. : 418-775-0555 / tél. cell. : [redacted]

Director, Sciences regional directorate
Fisheries and Oceans Canada / Government of Canada
Yves.delafontaine@dfo-mpo.gc.ca Tel : 418-775-0555 / Cel. : [redacted]

Ma langue, une question de respect / My language, a matter of respect

De : Landry, Jean
Envoyé : 25 janvier 2017 13:32
À : Swerdfager, Trevor <Trevor.Swerdfager@dfo-mpo.gc.ca>; de Lafontaine, Yves <Yves.deLafontaine@dfo-mpo.gc.ca>
Cc : McPherson, Arran <Arran.McPherson@dfo-mpo.gc.ca>
Objet : RE: when is mackerel assesment meeting?

Yves will be able to add over this as needed. First step (framework assessment) was conducted last week (Jan 18-20). US scientists contributed. One member of FPS also attended. Full assessment of the stock is planned for March 8-9.

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Jean Landry
Director , Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Jean.Landry@dfo-mpo.gc.ca / Tel: 613-993-0029

Directeur, Sciences halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Jean.Landry@dfo-mpo.gc.ca / Tél. : 613-993-0029

Government of Canada / Gouvernement du Canada

Canada

De : Swerdfager, Trevor
Envoyé : 25 janvier 2017 13:18
À : Landry, Jean <Jean.Landry@dfo-mpo.gc.ca>; de Lafontaine, Yves <Yves.deLafontaine@dfo-mpo.gc.ca>
Objet : when is mackerel assesment meeting?

Trevor Swerdfager
Assistant Deputy Minister, Ecosystems and Oceans Science
Sous-ministre adjoint, Sciences des écosystèmes et des océans
Fisheries and Oceans Canada Pêches et Océans Canada
trevor.swerdfager@dfo-mpo.gc.ca
613-949-4919

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20XX-XXX-XXXXX

MEMORANDUM FOR THE DEPUTY MINISTER

REVIEW OF THE ASSESSMENT FRAMEWORK FOR ATLANTIC MACKEREL IN SUBAREAS 3 AND 4
(For Information)

SUMMARY

The Review of the Assessment Framework for Atlantic mackerel in subareas 3 and 4 took place on January 18-20, 2017 in Mont-Joli, Québec. Participants from NOAA, Academia, DFO Sciences and Fisheries management, and Industry attended the meeting.

A new, custom-built model was proposed to assess mackerel stock status and productivity. This "censored" model includes an estimation of unrecorded catches and therefore better estimates spawning stock biomass. Based on model performance and diagnostics, this model was approved as the new analytical framework for Atlantic mackerel.

The new model will be used for the stock assessment of Atlantic Mackerel in subareas 3 and 4 that will be held on March 8-9, 2017 in Mont-Joli.

BACKGROUND

A Canadian Science Advisory Secretariat (CSAS) Regional Peer Review Process meeting was held January 18-22, 2017 in Mont-Joli, Quebec to review the assessment framework for Atlantic Mackerel in Subareas 3 and 4.

In 2012 and 2014, abundance of Atlantic mackerel was assessed using a software that has become obsolete and no longer works on recent systems. In addition, this previous model could not account for uncertainty due to unrecorded catches.

ANALYSIS

The results of an online survey of fishers and an analysis of bait needs were presented, in order to estimate an upper limit for unrecorded catches of mackerel. Based on evidence provided at the meeting, the committee agreed that total catches could represent up 150% to 200% of recorded catches.

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A new, custom-built model was proposed to assess mackerel stock status and productivity. This "censored" model includes an estimation of unrecorded catches and therefore provides better estimates of spawning stock biomass. Based on model performance and diagnostics, this model was approved as the new analytical framework for Atlantic mackerel.

Given the lack of a clear stock-recruitment relationship for mackerel, the Lower Reference Point was chosen as 40% of Bmsy where Bmsy is estimated from Fmsy, which in turn is assumed to be F40%, as suggested by the Canadian Precautionary Approach framework.

STRATEGIC CONSIDERATIONS

The new model will be used for the stock assessment of Atlantic Mackerel in subareas 3 and 4 that will be held on March 8-9, 2017 in Mont-Joli.

NEXT STEP

Discussions from this Regional Peer Review Process meeting will be published in a CSAS Proceedings.

Trevor Swerdfager
Assistant Deputy Minister
Ecosystems and Oceans Science

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s.19(1)

Thomas, Tashina

From: Mallet, Pierre
Sent: February-03-17 1:58 PM
To: Thomas, Tashina
Subject: FW: Emailing: RE Mackerel meeting next Friday.msg, Response to email from [redacted] request to access to Area 16.doc, signed copy of letter to [redacted], FW Mackeral.msg, MECTS-#XXXXXXX-v2-Draft_Reply_North of Smokey _ 2016-03-02.docx, RE A
Attachments: RE: Mackerel meeting next Friday; Response to email from [redacted] request to access to Area 16.doc; signed copy of letter to [redacted]; FW: Mackeral; MECTS-#XXXXXXX-v2-Draft_Reply_North of Smokey _ 2016-03-02.docx; RE: Area 16 Mackerel

-----Original Message-----
From: Waters, Christa
Sent: January-19-17 9:24 AM
To: Penny, Lorne; Langille, Janet; MacDonald, Carl
Cc: Mallet, Pierre
Subject: Emailing: RE Mackerel meeting next Friday.msg, Response to email from [redacted] request to access to Area 16.doc, signed copy of letter to [redacted] pdf, FW Mackeral.msg, MECTS-#XXXXXXX-v2-Draft_Reply_North of Smokey _ 2016-03-02.docx, RE Area

Hello Lorne and Janet,

Here is some information that I have been able to find. It seems that this question has been asked a few times now. I have also located a BN from 2008 that was a Ministerial decision on access. In this BN it was required that people who wanted an overlap had to prove that there were landings from the other area. The copy that I have is not the signed copy, so I have asked NHQ to see if they could late the signed copy and if there was anything in their files after this.

I have been told that Brian Lester has a file on this, but he is out of town for ICCAT stuff I believe. He will not be back until next week.

Christa

Your message is ready to be sent with the following file or link attachments:

RE Mackerel meeting next Friday.msg
Response to email from [redacted] request to access to Area 16.doc signed copy of letter to [redacted] FW Mackeral.msg MECTS-#XXXXXXX-v2-Draft_Reply_North of Smokey _ 2016-03-02.docx RE Area 16 Mackerel.msg

Note: To protect against computer viruses, e-mail programs may prevent sending or receiving certain types of file attachments. Check your e-mail security settings to determine how attachments are handled.

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s.19(1)

Thomas, Tashina

From: Hussey-Bondt, Laura
Sent: February-17-16 11:42 AM
To: [redacted]
Subject: RE: Mackerel meeting next Friday

Hello again [redacted]

Following up on my email below, I've been looking into your question about being able to fish mackerel in Mackerel Fishing Area 16, and it looks like you've made this request to DFO before and were denied. There are a small number of mackerel licence holders in our region who were permitted to retain access to Area 16 after divisions were established between Gulf and Maritimes Regions. The remaining mackerel licences are valid for areas within the Maritimes Region administrative region of DFO. If you have no new information to present on this matter, then I don't think this merits further discussion at the Advisory Committee meeting, as your request has already been addressed. Apologies that I didn't realize this sooner. If you'd like to discuss, you can contact me at the information below.

Thanks,

Laura

From: Hussey-Bondt, Laura
Sent: February-17-16 9:28 AM
To: [redacted]
Subject: Mackerel meeting next Friday

Hi [redacted]

You mentioned that you wanted to propose that mackerel licence holders in area 17 be granted access to fish in area 16 (the Gulf) as well, and I think you wanted to discuss this at the upcoming mackerel advisory committee meeting next Friday, correct? If so, might you be able to submit something to me in writing about what you would like to propose? It doesn't have to be anything too lengthy, just something that describes exactly what it is you are proposing. That way, I can provide that information to the meeting participants beforehand, so they will have a chance to give it some consideration and we can have a discussion on it at the meeting. If you don't mind, I will also ask you to say a few words about your proposal at the meeting, to set it out and get the discussion started.

Thank you,
Laura

Please note new phone number below, updated as of Jan 7, 2016

Laura Hussey-Bondt

Senior Advisor / Fisheries Management
Fisheries and Oceans Canada/Government of Canada
Laura.Hussey-Bondt@dfo-mpo.gc.ca/Tel: 902-402-3258/ Fax: 902-426-9683

Conseillère principale, p.i. / Gestion des pêches
Pêches et Océans Canada/Gouvernement du Canada
Laura.Hussey-Bondt@dfo-mpo.gc.ca Tél. 902-402-3258/ Fax. 902-426-9683

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If you have received this communication by mistake, please notify the sender immediately and delete the communication without printing, copying or forwarding it. Thank you.
Si vous avez reçu cette communication par erreur, veuillez en aviser l'expéditeur immédiatement et la supprimer sans l'imprimer, la copier, ou la faire suivre. Merci.

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s.19(1)

Thomas, Tashina

From: Waters, Christa
Sent: February-17-16 11:24 AM
To: Hussey-Bondt, Laura
Subject: FW: Mackeral

Christa Waters
Regional Senior Fisheries Management Advisor
Resource Management | Gestion des Pêches
Maritimes Region | Région des Maritimes
Telephone | Téléphone 902-293-6541

From: Waters, Christa
Sent: October 30, 2014 10:54 AM
To: [redacted]
Subject: RE: Mackeral

Hello [redacted]

I have done some preliminary work. It seems as though there were only three people who regularly had their licenses amended. If others asked for this amendment they were denied as they did not traditionally have the amendment.

A search for the letter written by Barry MacAulay has not been successful (staff in Sydney and myself have searched). If you could find a copy of that letter, it would be helpful.

If there is any other information you could provide that may help, it would be appreciated.

Regards,
Christa

Christa Waters
Regional Senior Fisheries Management Advisor
Resource Management | Gestion des Pêches
Maritimes Region | Région des Maritimes
Telephone | Téléphone 902-426-9854

From: [redacted]
Sent: October 26, 2014 7:43 PM
To: Waters, Christa
Subject: Mackeral

hi how are you today , im wondering if you had a chance to look at north of smokeys request for its fishers in area 17 to access area 16
heres my phone number [redacted] we could talk further
thanks [redacted]

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s.19(1)

Fisheries and Oceans Canada | Pêches et Océans Canada
PO Box 1006
Dartmouth, NS
B2Y 4A2

APR 1 8 2016

[redacted]
North of Smokey – Inverness South
Fishermen's Association
PO Box 119
Ingonish, NS, B0C 1K0

Dear [redacted]

Thank you for your email correspondence of February 22, 2016, requesting Fisheries and Oceans Canada (DFO) review the current access arrangement for Area 17 Mackerel licence holders.

The fishery is currently considered stable, and as such, your request to access Area 16 would amount to a change in access or allocation. I regret to inform you that no changes to access are being considered in the Mackerel fishery at this time.

The Department is committed to making decisions related to access and allocation in consultation with industry and other stakeholders, while respecting environmental sustainability, economic viability, adjacency and historical attachment. Should there be a mechanism in the future to reconsider sharing arrangements, such as access across Mackerel Fishing Areas, such consideration would be through an open and transparent process such as the Atlantic Mackerel Advisory Committee process. This would ensure all stakeholders have ample opportunity to present their proposals and receive feedback prior to a decision being taken.

Please rest assured that the request of the North of Smokey – Inverness South Fishermen's Association has been reviewed by both Maritimes Region and Gulf Region staff and will be retained on file.

Yours sincerely,

Morley Knight
Regional Director General,
Maritimes Region

Cc: Wendy Watson-Wright
RDG-Gulf Region

Canada

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Fisheries and Oceans Pêches et Océans

TRANSMITTAL SLIP - FICHE D'ACHEMINEMENT

Initial to indicate approval:
Initialer en signe d'approbation:

	Name - Nom	Date	Tel. No. - N° de tél.
Originator: Responsable:	K. Hussey-B	April 1	[illegible]
Supervisor: Surveillant:	A/ Scientific Coordinator	April 1	[illegible]
Director: Directeur:	A/ A. MacNeil	April 1/16	[illegible]
Regional Director: Directeur Regional:	Leslie	APR 04 2016	[illegible]
Regional Director General: Directeur général regional:	M. Knight		
	K Haley	April	3824

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s.19(1)

Thomas, Tashina

From: Waters, Christa
Sent: October-09-14 2:22 PM
To: Langille, Janet
Subject: RE: Area 16 Mackerel

You rock! And great memory!

Christa Waters
Regional Senior Fisheries Management Advisor
Resource Management | Gestion des Pêches
Maritimes Region | Région des Maritimes
Telephone | Téléphone 902-426-9854

From: Langille, Janet
Sent: May 18, 2010 2:36 PM
To: Waters, Christa
Cc: Couture, John A; Abraham, Tanya
Subject: RE: Area 16 Mackerel

Hi Christa!!!!

There are three license holders....

In all of my time here I have not had anyone else ask formally.....perhaps a few informally, but they were stopped immediately because they did not have the historical ties.

Let me know the update....
THANKS

From: Waters, Christa
Sent: May 17, 2010 4:14 PM
To: Langille, Janet
Subject: RE: Area 16 Mackerel

Hello Janet,
How many licence holders are we talking about? Can you provide the licences that have been getting this access. Is there any feeling if others would ask for it also? I will have to draft some wording for the licensing policy, and then move forward with putting this on their licences when they print out. Have been speaking with Nancy MacNeil on this.
Christa

From: Langille, Janet
Sent: May 3, 2010 2:20 PM
To: MacNeil, Nancy; Waters, Christa
Cc: Gillis, Aaron
Subject: RE: Area 16 Mackerel

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I have searched my emails...Barry MacAulay's old email files...the resource files....the Area Director's files.....and I cannot find anything.....

I do not ever recall seeing a letter...just the passed down information of writing it on the license....

From: MacNeil, Nancy
Sent: May 3, 2010 12:04 PM
To: Waters, Christa; Langille, Janet
Cc: Gillis, Aaron; Couture, John A
Subject: RE: Area 16 Mackerel

The other issue is hand writing on licence documents. This practice was terminated some time ago. Until we find something authorizing the additional area I suggest that we terminate the practice of updating the licence documents by hand. Once we have the authorization we can incorporate into the system.

Nancy MacNeil
A/Senior Advisor
Resource Management Policies - Maritimes Region
Fisheries and Oceans Canada
5th Floor, Marine House
176 Portland St.
Dartmouth, NS B2Y 4T3
Tele: (902) 426-1320
Fax: (902) 426-9683

From: Waters, Christa
Sent: May 3, 2010 10:04 AM
To: Langille, Janet
Cc: Gillis, Aaron; Couture, John A; MacNeil, Nancy
Subject: FW: Area 16 Mackerel

Hello Janet,
It has come to my attention that access to MFA 16 (by MFA 17 licence holders) has been hand written on licence conditions for several years. The authority for this was said to have come from a letter from/by Mr. Barry MacAulay. Do you have a copy of this letter, or any evidence that this was approved by someone in senior management (Fred Allen, Peter Partington; Neil Bellefontaine, Les Burke, Faith Scattolon). I have not been able to find anything to date, and will continue looking.
Thank you
Christa

From: Couture, John A
Sent: April 29, 2010 2:25 PM
To: Waters, Christa
Subject: RE: Area 16 Mackerel

Has been done **every** year, but it should be written on the conditions by MARFIS and taken out of the LSC staff hands...

John Couture

Licensing Officer, ENS

(902) 564-3934

From: Waters, Christa
Sent: April 29, 2010 2:24 PM
To: Gillis, Aaron
Cc: Couture, John A
Subject: RE: Area 16 Mackerel

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s.19(1)

Was this done last year?

This issue was brought up at the Atlantic Mackerel Advisory Committee meeting. Apparently there was a meeting where both RDG's attended where a decision on this was made. I can not locate any paper trail of this.

Still looking.

Christa

From: Gillis, Aaron
Sent: April 22, 2010 3:01 PM
To: Waters, Christa
Subject: FW: Area 16 Mackerel

Christa, this is the information provided on the ENS mackerel licences with MFA 16 access:

From: Couture, John A
Sent: April 22, 2010 9:54 AM
To: Gillis, Aaron
Subject: RE: Area 16 Mackerel

Historic carried on from Barry MacAulay to Janet Langille. Written on paper copy from year to year and goes back to before MARFIS! Letter has long since gone, but they retain the license with the printed: Area 16 via B. MacAulay (ALA) letter.

John Couture
Licensing Officer, ENS
(902) 564-3934

From: Gillis, Aaron
Sent: April 22, 2010 9:38 AM
To: Couture, John A
Subject: RE: Area 16 Mackerel

Was there a letter that went out to fishers authorizing their initial access to MFA 16 issued by the ALA? Christa is looking for additional information on why these licences are issued with the additional area.

From: Couture, John A
Sent: April 21, 2010 2:17 PM
To: Gillis, Aaron
Subject: Area 16 Mackerel

Although a couple more may show up later...from our records we have 3 participants

John Couture
Licensing Officer, Resource Management / Agent de secteur, Gestion des ressources
Eastern Nova Scotia Area / Secteur de l'est de la Nouvelle-Écosse
Maritimes Region / Région des Maritimes
902-564-3934

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Do you really have to print this message? Let's think of the environment.
Devez-vous vraiment imprimer ce courriel? Pensons à l'environnement

No information has been removed or severed from this page

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Marentette, Julie

Subject: BL's office?
Location: Quick recap of Mackerel Framework Meeting

Start: Mon 06/02/2017 9:30 AM
End: Mon 06/02/2017 10:00 AM
Show Time As: Tentative

Recurrence: (none)

Meeting Status: Not yet responded

Organizer: Marentette, Julie
Required Attendees: Lester, Brian

Hi Brian,

If you are interested, we can chat about the framework meeting and what will be brought forward at the March assessment.

I've attached a summary of the meeting here (mostly, focusing on the new model that will be used). The region has looked over this summary, but there will also be CSAS documents coming out that will be more comprehensive (a proceedings and up to two res docs, and a SAR will come out after March).

Industry members were present at the framework meeting and expressed interest in the Ocean Protection Plan funding and whether it's being used for mackerel monitoring – this question may come up again in March.



Summary 2017 Mackerel Frame...

Thanks,
Julie

Pages 512 to / à 517
are duplicates of
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page 427

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Cormier, Mélanie

De: Cyr, Charley
Envoyé: 7 février 2017 16:46
À: Drapeau, André; Lester, Brian; Kerwin, Jessica; Hardy, Magalie; Richard, Josée; Morin, Mathieu; Mallet, Pierre
Cc: Rivierre, Antoine
Objet: RE: Maquereau - cadre référence évaluation de stock
Pièces jointes: Cadre_Maquereau_2017_Fr.docx; ToR Mackerel_2017_en.docx

Bonjour / Hello,

Voici le cadre de référence pour la prochaine évaluation de stock de maquereau prévue les 8 et 9 mars prochain. Est-ce que vous pouvez valider le cadre de référence svp pour le 10 mars 2017 afin que je puisse transmettre les invitations. Merci

Please find enclosed the Terms of Reference for the next Mackerel stock assessment meeting planned for March 8 and 9.
Can you review the ToRs for March 10, 2017 so that I can forward the invitations. Thank you

Charley Cyr
Directeur
DAISS
(418) 775-0825
Charley.Cyr@dfo-mpo.gc.ca

De : Drapeau, André
Envoyé : 8 décembre 2016 15:26
À : Lester, Brian; Kerwin, Jessica; Hardy, Magalie; Richard, Josée; Morin, Mathieu; Mallet, Pierre
Cc : Rivierre, Antoine; Cyr, Charley
Objet : Maquereau - Participation cadre référence - validation liste - envoi Ottawa et secteur - 2016-12-08

Hello to all / *Bonjour à tous,*

For the upcoming meeting on mackerel (Review of the Assessment Framework for Atlantic mackerel in subareas 3 and 4) that will held in Mont-Joli on January 18–20, 2017, I was wondering if could validate the list of participants. M. Charley Cyr from Sciences would like for us to validate the list of participants identified in the Excel spreadsheet.

Could this validation be made by COB December 9th ?

Dans le cadre de la prochaine réunion sur le maquereau (Examen du cadre d'évaluation du maquereau de l'Atlantique dans les sous-zones 3 et 4) qui se tiendra à Mont-Joli les 18 et 20 janvier 2017, je me demandais si vous pouviez valider la liste des participants. M. Charley Cyr des Sciences nous demande que nous validions la liste des participants identifiés dans le fichier Excel.

Cette validation peut-elle être faite d'ici la fin de la journée du 9 décembre?

Thanks / *Merci*
AD

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André Drapeau

Conseiller aquacole et du PCCSM, Gestion de la ressource et de l'aquaculture
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Andre.drapeau@dfo-mpo.gc.ca / Tél. : 418.649.6314

Aquaculture and CSSP Advisor, Resource management and Aquaculture
Fisheries and Oceans Canada / Government of Canada
Andre.drapeau@dfo-mpo.gc.ca / Tel: 418.649.6314

Government of Canada / Gouvernement du Canada

Canada

De : Cyr, Charley
Envoyé : 8 décembre 2016 14:48
À : Drapeau, André
Objet : Liste cadre maquereau à valider

André,

Voici la liste pour la réunion du cadre maquereau à valider

Charley Cyr

Directeur, Avis, Informations et soutien scientifiques
Direction régionale des Sciences
Pêches et Océans Canada / Gouvernement du Canada
charley.cyr@dfo-mpo.gc.ca / Tél.: 418-775-0825

Director, Scientific Advices, Informations and Support
Science Regional Branch
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Charley.cyr@dfo-mpo.gc.ca / Tel.: 418-775-0825

Ma langue, une question de respect / My language, a matter of respect

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Cadre de référence

Évaluation du maquereau bleu des sous-régions 3-4

Examen par des pairs régional – région du Québec

Les 8 et 9 mars 2017
Mont-Joli (Québec)

Président : Dominique Gascon

Contexte

Dans les provinces maritimes, à Terre-Neuve et au Québec (sous-régions 3 et 4 de l'OPANO), plus de 15 000 pêcheurs commerciaux pratiquent la pêche au maquereau bleu. Celle-ci se déroule généralement près des côtes à l'aide du filet maillant, de la turlutte, de la ligne à la main, de la senne et de la trappe. L'utilisation de ces engins de pêche varie selon la région et la période de l'année. Au cours des années 1980 et 1990, les débarquements des pêcheurs canadiens ont été stables avec une moyenne de 22 000 t par année. Cependant, une hausse importante s'est produite au début des années 2000 avec un maximum historique de 54 621 t en 2005 en raison du recrutement dans la population d'une très importante classe d'âge (1999) et d'une augmentation marquée de l'effort de pêche des petits et grands senneurs des côtes est et ouest de Terre-Neuve (Divisions 3KL et 4R). Les débarquements moyens de la période 2006-2010 ont été de 43 464 t. Ils ont été suivis d'une chute importante, passant à 11 400 t en 2011, 6 468 t en 2012 et 7 431 t en 2013. Les débarquements canadiens de maquereau sont sous-estimés puisque ce ne sont pas tous les livres de bord de la pêche d'appât qui sont remplis et qu'il y a des ventes directes en mer provenant de cette pêche. De plus, les prises de la pêche récréative, qui se déroule au cours des mois d'été le long de la côte atlantique, ne sont pas rapportées, tout comme les rejets de petits maquereaux. L'abondance du maquereau est évaluée à partir des données provenant d'un relevé des œufs qui se déroule annuellement sur le site de fraie principal dans le sud du golfe du Saint-Laurent.

L'industrie de la pêche au maquereau rapporte récemment qu'elle capture beaucoup de poisson sous la taille légale. Selon la réglementation, un pêcheur lors d'un voyage de pêche ne peut avoir en sa possession une quantité supérieure à 10 % de maquereau sous la taille légale de 26,3 cm. Toutefois, on rapporte des taux de débarquement allant jusqu'à 90 % de poissons sous la taille légale dans les années récentes. Il y a peu d'informations disponibles sur le taux de survie suite à la remise à l'eau.

La dernière évaluation du maquereau bleu des sous-régions 3 et 4 de l'OPANO remonte à l'hiver 2014. La Direction de la gestion des pêches et de l'aquaculture a sollicité un avis scientifique sur l'état du stock de maquereau des eaux canadiennes pour les saisons de pêche 2017 et 2018. Le but de la revue est de déterminer si les changements survenus dans l'état de la ressource nécessitent des ajustements au plan de gestion en fonction de l'approche de conservation retenue.

Objectifs

Formuler un avis scientifique pour la gestion du maquereau bleu des sous-régions 3 et 4 de l'OPANO (côte est canadienne) pour les saisons de pêche 2017 et 2018. Cet avis comprendra :

- Une évaluation de l'état du maquereau bleu basée sur :
  - Une revue de la structure de population du maquereau bleu dans l'Atlantique Nord
  - l'analyse des statistiques de la pêche commerciale des saisons 2014, 2015 et 2016 (distribution globale des débarquements, ventilation par province, division de l'OPANO, engin de pêche, etc...);
  - l'analyse des données biologiques recueillies par des échantillonneurs dans les principaux ports de débarquements ou en mer par des observateurs (structure de taille et calcul d'indicateurs biologiques);
  - l'analyse de l'indice du relevé des œufs pour les années 2014, 2015 et 2016 ;

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- une discussion sur la qualité des statistiques de pêche et des données biologiques, et revue des principales sources d'incertitude;
- des considérations écosystémiques et environnementales ;
- Une présentation du nouvel indice d'abondance du maquereau développé par les biologistes américains à partir des données des œufs dans les eaux des États-Unis
- présentation des résultats d'un modèle statistique de captures à l'âge qui inclut des estimations de capture manquante (suite à une revue cadre en janvier 2017) basé sur la capture à l'âge canadienne et l'indice du relevé des œufs. Ces résultats vont inclure les mortalités par la pêche, les abondances et les biomasses reproductrices, la mise à jour des points de référence, la trajectoire du stock et des prédictions de captures pour 2017 et 2018 selon différents scénarios de mortalité par la pêche.
- Évaluation provisoire à des fins illustratives du maquereau des sous-zones 3 à 6 qui inclura les captures commerciales américaines et potentiellement un indice des œufs américain.

- Des éléments particuliers touchant la mise à jour des données pertinentes à la gestion du maquereau bleu tels que :
  - L'identification des indicateurs et des déclencheurs pour les années intérimaires sans évaluation de stock;
  - L'identification et la priorisation de travaux de recherche à considérer pour le futur;
  - Les perspectives et/ou recommandations pour 2017 et 2018 basées sur les données disponibles.
  - Fournir un avis sur une demande de la Gestion des pêches d'abandonner l'exigence de taille minimale.

Publications prévues

- 1 Avis scientifique (qui inclura également les résultats de l'évaluation cadre de janvier 2017)
- 1 Compte rendu
- Des documents de recherche

Participation

- Pêches et Océans Canada (MPO) (Secteurs des Sciences et de la Gestion des Pêches)
- Représentants de NOAA / National Marine Fisheries Service, USA
- Représentants de l'Industrie
- Représentants provinciaux
- Universitaires
- Communautés ou organisations autochtones
- Organisations non gouvernementales à vocation environnementale

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Terms of Reference

Assessment of Atlantic mackerel in subareas 3 and 4

Regional Peer Review – Quebec Region

March 8–9, 2017
Mont-Joli, Quebec

Chairperson: Dominique Gascon

Context

In the Maritime Provinces, in Newfoundland and in Quebec (NAFO subareas 3 and 4), over 15,000 commercial fishers participate in the Atlantic mackerel fishery. This fishery takes place mainly inshore using gillnets, jiggers, handlines, seines and traps. The type of gear used varies by region and time of year. During the 1980s and 1990s, landings by Canadian fishermen were rather stable and averaged around 22,000 t per year. However, there has been a significant increase since the early 2000s, reaching a record high of 54,621 t in 2005 due to the marked increase in fishing effort by small and large seiners on the east and west coasts of Newfoundland (Divisions 3KL and 4R) and the presence in the population of a very important year-class (1999). The average landings of the 2006-2010 period were 43,464 t. They were followed by a severe drop reaching 11,288 t in 2011, 6,468 t in 2012 and 7,431 t in 2013. Canadian landings of Atlantic mackerel are underestimated because some logbooks from the bait fishery are not filled and there are direct sales at sea from that fishery. In addition, neither catches in the recreational fishery, which occurs during summer months all along the Atlantic coast, nor the discards of small mackerel are recorded. The abundance of the spawning stock of Atlantic mackerel is calculated using data collected from an egg survey which occurs annually in the southern Gulf of St. Lawrence.

The mackerel fishery industry recently reported that it catches a lot of fish under legal size. According to the regulations, a fisherman on a fishing trip can't possess more than 10% of mackerel under the legal size of 26.3 cm. However, landing rates of up to 90% of fish below legal size are reported in recent years. There is little information available on the survival rate following release.

The last assessment of mackerel in subareas 3 and 4 was conducted in winter 2014. The Fisheries and Aquaculture Management Branch has requested a scientific advice on Atlantic mackerel in Canadian waters for the 2017 and 2018 fishing seasons. The objective of the review is to determine whether changes that have occurred in the stock status necessitate adjustments to management plans based on the conservation approach used.

Objectives

Provide a scientific advice on the management of the Atlantic mackerel in NAFO Subareas 3 and 4 (Canada's east coast) for the 2017 and 2018 fishing seasons. This advice will include:

- An assessment of the status of Atlantic mackerel, based on:
    - a review of the population structure of Atlantic mackerel in the North Atlantic;
    - an analysis of the commercial fishery statistics following the 2014, 2015 and 2016 seasons (overall distribution of landings, breakdown by province, NAFO Division, fishing gear, etc...);
    - an analysis of the biological data collected in the main port of landings by port samplers or at sea by observers (size structure and calculation of biological indicators);
    - an analysis of the egg survey index for 2014, 2015 and 2016;
    - a discussion on the quality of the fishery statistics and a review of the main sources of uncertainty;
    - ecosystem and environmental considerations;
    - A presentation of the new mackerel abundance index developed by US biologists from egg data in US waters;

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  - A presentation of the results of a statistical catch-at-age model that includes missing catch estimates (following a framework review in January 2017) based on the Canadian catch at the age and the egg survey index. These results will include fishing mortality, abundance and spawning biomass, updating reference points, stock trajectory and predictions of the 2017 and 2018 catches under different fishing mortality scenarios.
  - Interim evaluation for illustrative purposes of mackerel in Subareas 3 to 6 which will include US commercial catches and potentially an American egg index.

- Specific elements related to the update of the relevant data to the management of Atlantic mackerel such as:
  - Identification of indicators and triggers for the years without a formal stock assessment;
  - Identification and prioritization of research projects to be considered for the future;
  - Perspectives and/or recommendations for 2017 and 2018 based on available data.
  - Provide advice on a request from Fisheries Management to abandon the minimum size requirement.

Expected publications

- 1 Science Advisory Report
- 1 Proceedings
- Research Documents

Participation

- Fisheries and Oceans Canada (DFO) (Science and Fisheries Management sectors)
- NOAA Representatives / National Marine Fisheries Service, USA
- Industry representatives
- Provincial representatives
- Academics
- Aboriginal communities/organizations
- Environmental NGOs

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Cormier, Mélanie

De: Hardy, Magalie
Envoyé: 10 février 2017 17:49
À: Richard, Josée; Cyr, Charley
Cc: Rivierre, Antoine; Drapeau, André; Morin, Mathieu
Objet: RE: Maquereau - cadre référence évaluation de stock
Pièces jointes: Cadre_Maquereau_2017_Fr (MH).docx

Bonjour Charley,

Un seul commentaire additionnel.

Merci et bonne fin de semaine,

Magalie

De : Richard, Josée
Envoyé : 8 février 2017 07:30
À : Cyr, Charley; Drapeau, André; Hardy, Magalie; Morin, Mathieu
Cc : Rivierre, Antoine
Objet : RE: Maquereau - cadre référence évaluation de stock

Quelques commentaires mineurs, plutôt sous forme de questions.

Bonne journée,

De : Cyr, Charley
Envoyé : 7 février 2017 17:46
À : Drapeau, André; Lester, Brian; Kerwin, Jessica; Hardy, Magalie; Richard, Josée; Morin, Mathieu; Mallet, Pierre
Cc : Rivierre, Antoine
Objet : RE: Maquereau - cadre référence évaluation de stock

Bonjour / Hello,

Voici le cadre de référence pour la prochaine évaluation de stock de maquereau prévue les 8 et 9 mars prochain. Est-ce que vous pouvez valider le cadre de référence svp pour le 10 mars 2017 afin que je puisse transmettre les invitations. Merci

Please find enclosed the Terms of Reference for the next Mackerel stock assessment meeting planned for March 8 and 9.
Can you review the ToRs for March 10, 2017 so that I can forward the invitations. Thank you

Charley Cyr
Directeur
DAISS
(418) 775-0825
Charley.Cyr@dfo-mpo.gc.ca

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De : Drapeau, André
Envoyé : 8 décembre 2016 15:26
À : Lester, Brian; Kerwin, Jessica; Hardy, Magalie; Richard, Josée; Morin, Mathieu; Mallet, Pierre
Cc : Rivierre, Antoine; Cyr, Charley
Objet : Maquereau - Participation cadre référence - validation liste - envoi Ottawa et secteur - 2016-12-08

Hello to all / *Bonjour à tous,*

For the upcoming meeting on mackerel (Review of the Assessment Framework for Atlantic mackerel in subareas 3 and 4) that will held in Mont-Joli on January 18–20, 2017, I was wondering if could validate the list of participants. M. Charley Cyr from Sciences would like for us to validate the list of participants identified in the Excel spreadsheet.

Could this validation be made by COB December 9th ?

Dans le cadre de la prochaine réunion sur le maquereau (Examen du cadre d'évaluation du maquereau de l'Atlantique dans les sous-zones 3 et 4) qui se tiendra à Mont-Joli les 18 et 20 janvier 2017, je me demandais si vous pouviez valider la liste des participants. M. Charley Cyr des Sciences nous demande que nous validions la liste des participants identifiés dans le fichier Excel.

Cette validation peut-elle être faite d'ici la fin de la journée du 9 décembre?

Thanks / *Merci*
AD

André Drapeau

Conseiller aquacole et du PCCSM, Gestion de la ressource et de l'aquaculture
Pêches et Océans Canada / Gouvernement du Canada
Andre.drapeau@dfo-mpo.gc.ca / Tél. : 418.649.6314

Aquaculture and CSSP Advisor, Resource management and Aquaculture
Fisheries and Oceans Canada / Government of Canada
Andre.drapeau@dfo-mpo.gc.ca / Tel: 418.649.6314

Government of Canada / Gouvernement du Canada

Canada

De : Cyr, Charley
Envoyé : 8 décembre 2016 14:48
À : Drapeau, André
Objet : Liste cadre maquereau à valider

André,

Voici la liste pour la réunion du cadre maquereau à valider

Charley Cyr

Directeur, Avis, Informations et soutien scientifiques
Direction régionale des Sciences
Pêches et Océans Canada / Gouvernement du Canada
charley.cyr@dfo-mpo.gc.ca / Tél.: 418-775-0825

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Director, Scientific Advices, Informations and Support
Science Regional Branch
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Cadre de référence

Évaluation du maquereau bleu des sous-régions 3-4

Examen par des pairs régional – région du Québec

Les 8 et 9 mars 2017
Mont-Joli (Québec)

Président : Dominique Gascon

Contexte

Dans les provinces maritimes, à Terre-Neuve et au Québec (sous-régions 3 et 4 de l'OPANO), plus de 15 000 pêcheurs commerciaux pratiquent la pêche au maquereau bleu. Celle-ci se déroule généralement près des côtes à l'aide du filet maillant, de la turlutte, de la ligne à la main, de la senne et de la trappe. L'utilisation de ces engins de pêche varie selon la région et la période de l'année. Au cours des années 1980 et 1990, les débarquements des pêcheurs canadiens ont été stables avec une moyenne de 22 000 t par année. Cependant, une hausse importante s'est produite au début des années 2000 avec un maximum historique de 54 621 t en 2005 en raison du recrutement dans la population d'une très importante classe d'âge (1999) et d'une augmentation marquée de l'effort de pêche des petits et grands senneurs des côtes est et ouest de Terre-Neuve (Divisions 3KL et 4R). Les débarquements moyens de la période 2006-2010 ont été de 43 464 t. Ils ont été suivis d'une chute importante, passant à 11 400 t en 2011, 6 468 t en 2012 et 7 431 t en 2013. Les débarquements canadiens de maquereau sont sous-estimés puisque ce ne sont pas tous les livres de bord de la pêche d'appât qui sont remplis et qu'il y a des ventes directes en mer provenant de cette pêche. De plus, les prises de la pêche récréative, qui se déroule au cours des mois d'été le long de la côte atlantique, ne sont pas rapportées, tout comme les rejets de petits maquereaux. L'abondance du maquereau est évaluée à partir des données provenant d'un relevé des œufs qui se déroule annuellement sur le site de fraie principal dans le sud du golfe du Saint-Laurent.

L'industrie de la pêche au maquereau rapporte récemment qu'elle capture beaucoup de poisson sous la taille légale. Selon la réglementation, un pêcheur lors d'un voyage de pêche ne peut avoir en sa possession une quantité supérieure à 10 % de maquereau sous la taille légale de 26,3 cm. Toutefois, on rapporte des taux de débarquement allant jusqu'à 90 % de poissons sous la taille légale dans les années récentes. Il y a peu d'informations disponibles sur le taux de survie suite à la remise à l'eau.

Commentaire [MH1]: Ça vient d'ou ce % ? On nous rapporte qu'il y en a beaucoup mais est-ce documenté ?

La dernière évaluation du maquereau bleu des sous-régions 3 et 4 de l'OPANO remonte à l'hiver 2014. La Direction de la gestion des pêches et de l'aquaculture a sollicité un avis scientifique sur l'état du stock de maquereau des eaux canadiennes pour les saisons de pêche 2017 et 2018. Le but de la revue est de déterminer si les changements survenus dans l'état de la ressource nécessitent des ajustements au plan de gestion en fonction de l'approche de conservation retenue.

Objectifs

Formuler un avis scientifique pour la gestion du maquereau bleu des sous-régions 3 et 4 de l'OPANO (côte est canadienne) pour les saisons de pêche 2017 et 2018. Cet avis comprendra :

- Une évaluation de l'état du maquereau bleu basée sur :
  - Une revue de la structure de population du maquereau bleu dans l'Atlantique Nord
  - l'analyse des statistiques de la pêche commerciale des saisons 2014, 2015 et 2016 (distribution globale des débarquements, ventilation par province, division de l'OPANO, engin de pêche, etc...);
  - l'analyse des données biologiques recueillies par des échantillonneurs dans les principaux ports de débarquements ou en mer par des observateurs (structure de taille et calcul d'indicateurs biologiques);
  - l'analyse de l'indice du relevé des œufs pour les années 2014, 2015 et 2016 ;

Commentaire [D3]: Est-ce qu'il y a des observateurs sur les senneurs?

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- une discussion sur la qualité des statistiques de pêche et des données biologiques, et revue des principales sources d'incertitude;
- des considérations écosystémiques et environnementales ;
- Une présentation du nouvel indice d'abondance du maquereau développé par les biologistes américains à partir des données des œufs dans les eaux des États-Unis
- présentation des résultats d'un modèle statistique de captures à l'âge qui inclut des estimations de capture manquante (suite à une revue cadre en janvier 2017) basé sur la capture à l'âge canadienne et l'indice du relevé des œufs. Ces résultats vont inclure les mortalités par la pêche, les abondances et les biomasses reproductrices, la mise à jour des points de référence, la trajectoire du stock et des prédictions de captures pour 2017 et 2018 selon différents scénarios de mortalité par la pêche.
- Évaluation provisoire à des fins illustratives du maquereau des sous-zones 3 à 6 qui inclura les captures commerciales américaines et potentiellement un indice des œufs américain.

- Des éléments particuliers touchant la mise à jour des données pertinentes à la gestion du maquereau bleu tels que :
  - L'identification des indicateurs et des déclencheurs pour les années intérimaires sans évaluation de stock;
  - L'identification et la priorisation de travaux de recherche à considérer pour le futur;
  - Les perspectives et/ou recommandations pour 2017 et 2018 basées sur les données disponibles.
  - Fournir un avis sur une demande de la Gestion des pêches d'abandonner l'exigence de taille minimale.

Commentaire [D4]: Une demande a été formulae en ce sens?

Publications prévues

- 1 Avis scientifique (qui inclura également les résultats de l'évaluation cadre de janvier 2017)
- 1 Compte rendu
- Des documents de recherche

Participation

- Pêches et Océans Canada (MPO) (Secteurs des Sciences et de la Gestion des Pêches)
- Représentants de NOAA / National Marine Fisheries Service, USA
- Représentants de l'Industrie
- Représentants provinciaux
- Universitaires
- Communautés ou organisations autochtones
- Organisations non gouvernementales à vocation environnementale

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Cormier, Mélanie

De: Richard, Josée
Envoyé: 10 février 2017 11:53
À: Rivierre, Antoine
Cc: Hardy, Magalie
Objet: RE: Maquereau - cadre référence évaluation de stock

Merci Antoine. Est-ce que tu peux m'indiquer si les étiquettes seront obligatoires pour le maquereau commercial (filets maillants) dans la zone 16 en 2017. Si oui, est-ce qu'une communication sera faite à l'industrie?

J'ai une question d'une de nos associations en ce sens.

Merci,

De : Rivierre, Antoine
Envoyé : 10 février 2017 12:15
À : Richard, Josée; Cyr, Charley; Hardy, Magalie; Morin, Mathieu
Objet : RE: Maquereau - cadre référence évaluation de stock

Bonjour Josée
Quelques éléments de réponse à tes questions.

Dans les conditions de permis pour la pêche à la senne, il est mentionné que la pêche du maquereau est assujettie à la présence d'observateurs en mer dans la zone 14.

Aussi, voici le lien vers la demande formulée aux sciences concernant les petits poissons :

file:///R:\Babillard\Peches\Sciences\2017-2018\GP_01%20-%20Petits%20maquereaux%20-%20Régional%20-%20%202016-10-03.doc

Merci pour tes commentaires

Antoine

De : Richard, Josée
Envoyé : February-08-17 7:30 AM
À : Cyr, Charley; Drapeau, André; Hardy, Magalie; Morin, Mathieu
Cc : Rivierre, Antoine
Objet : RE: Maquereau - cadre référence évaluation de stock

Quelques commentaires mineurs, plutôt sous forme de questions.

Bonne journée,

De : Cyr, Charley
Envoyé : 7 février 2017 17:46
À : Drapeau, André; Lester, Brian; Kerwin, Jessica; Hardy, Magalie; Richard, Josée; Morin, Mathieu; Mallet, Pierre
Cc : Rivierre, Antoine
Objet : RE: Maquereau - cadre référence évaluation de stock

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Bonjour / Hello,

Voici le cadre de référence pour la prochaine évaluation de stock de maquereau prévue les 8 et 9 mars prochain. Est-ce que vous pouvez valider le cadre de référence svp pour le 10 mars 2017 afin que je puisse transmettre les invitations. Merci

Please find enclosed the Terms of Reference for the next Mackerel stock assessment meeting planned for March 8 and 9.
Can you review the ToRs for March 10, 2017 so that I can forward the invitations. Thank you

Charley Cyr
Directeur
DAISS
(418) 775-0825
Charley.Cyr@dfo-mpo.gc.ca

De : Drapeau, André
Envoyé : 8 décembre 2016 15:26
À : Lester, Brian; Kerwin, Jessica; Hardy, Magalie; Richard, Josée; Morin, Mathieu; Mallet, Pierre
Cc : Rivierre, Antoine; Cyr, Charley
Objet : Maquereau - Participation cadre référence - validation liste - envoi Ottawa et secteur - 2016-12-08

Hello to all / *Bonjour à tous*,

For the upcoming meeting on mackerel (Review of the Assessment Framework for Atlantic mackerel in subareas 3 and 4) that will held in Mont-Joli on January 18–20, 2017, I was wondering if could validate the list of participants. M. Charley Cyr from Sciences would like for us to validate the list of participants identified in the Excel spreadsheet.

Could this validation be made by COB December 9th ?

Dans le cadre de la prochaine réunion sur le maquereau (Examen du cadre d'évaluation du maquereau de l'Atlantique dans les sous-zones 3 et 4) qui se tiendra à Mont-Joli les 18 et 20 janvier 2017, je me demandais si vous pouviez valider la liste des participants. M. Charley Cyr des Sciences nous demande que nous validions la liste des participants identifiés dans le fichier Excel.

Cette validation peut-elle être faite d'ici la fin de la journée du 9 décembre?

Thanks / *Merci*
AD

André Drapeau

Conseiller aquacole et du PCCSM, Gestion de la ressource et de l'aquaculture
Pêches et Océans Canada / Gouvernement du Canada
Andre.drapeau@dfo-mpo.gc.ca / Tél. : 418.649.6314

Aquaculture and CSSP Advisor, Resource management and Aquaculture
Fisheries and Oceans Canada / Government of Canada
Andre.drapeau@dfo-mpo.gc.ca / Tel: 418.649.6314

Government of Canada Gouvernement du Canada

Canada

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De : Cyr, Charley
Envoyé : 8 décembre 2016 14:48
À : Drapeau, André
Objet : Liste cadre maquereau à valider

André,

Voici la liste pour la réunion du cadre maquereau à valider

Charley Cyr

Directeur, Avis, Informations et soutien scientifiques
Direction régionale des Sciences
Pêches et Océans Canada / Gouvernement du Canada
charley.cyr@dfo-mpo.gc.ca / Tél.: 418-775-0825

Director, Scientific Advices, Informations and Support
Science Regional Branch
Fisheries and Oceans Canada / Government of Canada
Charley.cyr@dfo-mpo.gc.ca / Tel.: 418-775-0825

Ma langue, une question de respect
My language, a matter of respect

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s.19(1)

Cormier, Mélanie

De: Cawthray, Jenness
Envoyé: 13 février 2017 08:21
À: Rivierre, Antoine
Objet: RE: AMAC meeting

Hi Antoine,
Yes, it looks like March 30th is the best date. None of the other dates that week worked as were here there were some other industry meeting taking place.
The meeting will be in Halifax. I hope to have the venue approved today.
Are you good with this date?
Thanks,
Jenness

From: Rivierre, Antoine
Sent: February-10-17 2:32 PM
To: Cawthray, Jenness
Subject: RE: AMAC meeting

Bonjour Jenness
[redacted]. Peux-tu me confirmer que l'AMAC se tiendra bien le 30 mars prochain ? Le lieu a-il été décidé ?

Merci d'avance

Antoine

De : Cawthray, Jenness
Envoyé : January-31-17 10:17 AM
À : Mallet, Pierre; Castonguay, Martin; Rivierre, Antoine; Waters, Christa; Dunne, Erin; Doniol-Valcroze, Thomas
Cc : Lester, Brian
Objet : RE: AMAC meeting
Importance : Haute

Can we do Thursday, March 30th in Halifax? Please let me know ASAP so we can confirm the room.
Thanks!
Jenness

From: Mallet, Pierre
Sent: January-30-17 2:19 PM
To: Castonguay, Martin; Cawthray, Jenness; Rivierre, Antoine; Waters, Christa; Dunne, Erin; Doniol-Valcroze, Thomas
Subject: RE: AMAC meeting

Hi

The MFU have their annual meeting march 27-28-29. This is not good dates for them.

Thanks

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From: Castonguay, Martin
Sent: January-30-17 12:56 PM
To: Cawthray, Jenness; Rivierre, Antoine; Mallet, Pierre; Waters, Christa; Dunne, Erin; Doniol-Valcroze, Thomas
Subject: RE: AMAC meeting

Hi Jenness,

Do we have a firm date yet and location yet?

Martin

Martin Castonguay, Ph.D.
Chercheur et Chef de section Sciences pélagiques /
Research scientist Head of Pelagic science section
Institut Maurice-Lamontagne
Pêches et Océans Canada / Fisheries and Oceans Canada
850 route de la mer, C.P. 1000,
Mont-Joli, Québec,
Canada G5H 3Z4

Tel 1 418 775 0634
Fax 1 418 775 0740
martin.castonguay@dfo-mpo.gc.ca

De : Cawthray, Jenness
Envoyé : 17 janvier 2017 08:32
À : Rivierre, Antoine; Mallet, Pierre; Waters, Christa; Dunne, Erin; Doniol-Valcroze, Thomas; Castonguay, Martin
Objet : RE: AMAC meeting
Importance : Haute

Thanks Antoine for your feedback. Is there any opposition to moving the meeting to March 28 or 29 in Halifax?
Thomas, will science be ready to present the results of the SAR at this time. Can we provide an advance copy of the SAR or perhaps a high level PowerPoint summary of the results would be useful.
Let me know so I can pin down a date and look for a venue.
Thanks!
Jenness

From: Rivierre, Antoine
Sent: January-16-17 1:28 PM
To: Mallet, Pierre; Cawthray, Jenness; Waters, Christa; Dunne, Erin; Doniol-Valcroze, Thomas; Castonguay, Martin
Subject: RE: AMAC meeting

Hi, everyone
Here is a comment I would like to share with you from our sectorial office in Magdalena Island.

Considering the RAP will be held in march, they think that the proposed date for AMAC is too late. According to them, most of fishers in our region will be in preparation for the next fishing season and will not be available to assist to the meeting.

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As I'm new to this file too, please do not hesitate to tell me what you think about that.

Thank you

Antoine

De : Mallet, Pierre
Envoyé : January-16-17 12:57 PM
À : Cawthray, Jenness; Waters, Christa; Dunne, Erin; Rivierre, Antoine; Doniol-Valcroze, Thomas; Castonguay, Martin
Objet : RE: AMAC meeting

Ok with me

From: Cawthray, Jenness
Sent: January-16-17 11:55 AM
To: Waters, Christa; Mallet, Pierre; Dunne, Erin; Rivierre, Antoine; Doniol-Valcroze, Thomas; Castonguay, Martin
Subject: AMAC meeting
Importance: High

Hi All,

Just checking your availability for the AMAC meeting. We are proposing to have this meeting on April 4 or 5, in Halifax. Please let me know if this date works so we can start booking location ASAP. In addition, if I have missed anyone on this list that I should include, please let me know as I am new to this file.

Thomas, will the SAR be available or the results of the new science assessment be available to present for this meeting?

Thank you,

Jenness Cawthray
Senior Fisheries and Aquaculture Management Officer |
Agent principal, Gestion des pêches et de l'aquaculture
Fisheries and Oceans | Pêches et océans
200 rue Kent Street - 13S013 Ottawa, ON, K1A 0E6
Jenness.Cawthray@dfo-mpo.gc.ca
Telephone | Téléphone (613) 998-1524
Facsimile | Télécopieur (613) 990-7051
Government of Canada | Gouvernement du Canada

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Cormier, Mélanie

De: Hardy, Magalie
Envoyé: 13 février 2017 11:04
À: Drapeau, André; Rivierre, Antoine
Cc: Richard, Josée
Objet: TR: Maquereau - cadre référence évaluation de stock
Pièces jointes: GP_01_2017 - Petits maquereaux - Régional - 2016-10-03.doc

Bonjour,

Est-ce que l'un de vous deux pourrait répondre à ma question concernant le 90 % ?

Autre chose, pouvez-vous confirmer si les étiquettes sont obligatoires ou non dans la 16 du côté du golfe ?

Merci

De : Cyr, Charley
Envoyé : 11 février 2017 10:50
À : Hardy, Magalie; Richard, Josée
Cc : Rivierre, Antoine; Drapeau, André; Morin, Mathieu
Objet : RE: Maquereau - cadre référence évaluation de stock

Bonjour Magalie et les autres,

La demande concernant les petits maquereaux vise à répondre à cette demande. L'information du cadre provient de la fiche.

Charley Cyr
Directeur
DAISS
(418) 775-0825
Charley.Cyr@dfo-mpo.gc.ca

De : Hardy, Magalie
Envoyé : 10 février 2017 17:49
À : Richard, Josée; Cyr, Charley
Cc : Rivierre, Antoine; Drapeau, André; Morin, Mathieu
Objet : RE: Maquereau - cadre référence évaluation de stock

Bonjour Charley,

Un seul commentaire additionnel.

Merci et bonne fin de semaine,

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Magalie

De : Richard, Josée
Envoyé : 8 février 2017 07:30
À : Cyr, Charley; Drapeau, André; Hardy, Magalie; Morin, Mathieu
Cc : Rivierre, Antoine
Objet : RE: Maquereau - cadre référence évaluation de stock

Quelques commentaires mineurs, plutôt sous forme de questions.

Bonne journée,

De : Cyr, Charley
Envoyé : 7 février 2017 17:46
À : Drapeau, André; Lester, Brian; Kerwin, Jessica; Hardy, Magalie; Richard, Josée; Morin, Mathieu; Mallet, Pierre
Cc : Rivierre, Antoine
Objet : RE: Maquereau - cadre référence évaluation de stock

Bonjour / Hello,

Voici le cadre de référence pour la prochaine évaluation de stock de maquereau prévue les 8 et 9 mars prochain. Est-ce que vous pouvez valider le cadre de référence svp pour le 10 mars 2017 afin que je puisse transmettre les invitations. Merci

Please find enclosed the Terms of Reference for the next Mackerel stock assessment meeting planned for March 8 and 9.
Can you review the ToRs for March 10, 2017 so that I can forward the invitations. Thank you

Charley Cyr
Directeur
DAISS
(418) 775-0825
Charley.Cyr@dfo-mpo.gc.ca

De : Drapeau, André
Envoyé : 8 décembre 2016 15:26
À : Lester, Brian; Kerwin, Jessica; Hardy, Magalie; Richard, Josée; Morin, Mathieu; Mallet, Pierre
Cc : Rivierre, Antoine; Cyr, Charley
Objet : Maquereau - Participation cadre référence - validation liste - envoi Ottawa et secteur - 2016-12-08

Hello to all / *Bonjour à tous,*

For the upcoming meeting on mackerel (Review of the Assessment Framework for Atlantic mackerel in subareas 3 and 4) that will held in Mont-Joli on January 18–20, 2017, I was wondering if could validate the list of participants. M. Charley Cyr from Sciences would like for us to validate the list of participants identified in the Excel spreadsheet.

Could this validation be made by COB December 9th ?

Dans le cadre de la prochaine réunion sur le maquereau (Examen du cadre d'évaluation du maquereau de l'Atlantique dans les sous-zones 3 et 4) qui se tiendra à Mont-Joli les 18 et 20 janvier 2017, je me demandais si vous pouviez valider la liste des participants. M. Charley Cyr des Sciences nous demande que nous validions la liste des participants identifiés dans le fichier Excel.

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Cette validation peut-elle être faite d'ici la fin de la journée du 9 décembre?

Thanks / *Merci*
AD

André Drapeau

Conseiller aquacole et du PCCSM, Gestion de la ressource et de l'aquaculture
Pêches et Océans Canada / Gouvernement du Canada
Andre.drapeau@dfo-mpo.gc.ca / Tél. : 418.649.6314

Aquaculture and CSSP Advisor, Resource management and Aquaculture
Fisheries and Oceans Canada / Government of Canada
Andre.drapeau@dfo-mpo.gc.ca / Tel: 418.649.6314

Government of Canada / Gouvernement du Canada

Canada

De : Cyr, Charley
Envoyé : 8 décembre 2016 14:48
À : Drapeau, André
Objet : Liste cadre maquereau à valider

André,

Voici la liste pour la réunion du cadre maquereau à valider

Charley Cyr

Directeur, Avis, Informations et soutien scientifiques
Direction régionale des Sciences
Pêches et Océans Canada / Gouvernement du Canada
charley.cyr@dfo-mpo.gc.ca / Tél.: 418-775-0825

Director, Scientific Advices, Informations and Support
Science Regional Branch
Fisheries and Oceans Canada / Government of Canada
Charley.cyr@dfo-mpo.gc.ca / Tel.: 418-775-0825

Ma langue, une question de respect / My language, a matter of respect

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Pêches et Océans Canada | Fisheries and Oceans Canada

DEMANDE D'APPUI, D'INFORMATION, D'AVIS ET/OU DE SERVICE SCIENTIFIQUE

Titre de la demande **Petits maquereaux**	# *(pour usage interne seul.)* GP_01/2017

Personne-ressource à la direction

Nom : André Drapeau	Titre : Conseiller aquacole
Numéro de téléphone : 418-649-6314	Courriel : andre.drapeau@dfo-mpo.gc.ca

Direction générale, direction ou groupe qui présente la demande

Direction générale/Direction/Groupe

- ☒ Gestion des pêches et de l'aquaculture
- ☐ Gestion des écosystèmes
- ☐ Politiques
- ☐ Sciences
- ☐ Secteur Gaspésie-Bas-St-Laurent
- ☐ Secteur Îles-de-la-Madeleine
- ☐ Secteur Côte-Nord
- ☐ Secteur Terre-Neuve
- ☐ Garde Côtière canadienne (GCC)
- ☐ Autre (préciser) :

Détails sur la demande

Quelle est la question nécessitant des informations scientifiques ou un avis scientifique ?
S.v.p., fournir une question claire, et au besoin, un énoncé descriptif.

L'industrie de la pêche au maquereau nous rapporte qu'elle capture beaucoup de poisson sous la taille légale. Selon la réglementation, un pêcheur lors d'un voyage de pêche ne peut avoir en sa possession une quantité supérieure à 10% de maquereau sous la taille légale. Toutefois, on nous rapporte que des taux de débarquement allant jusqu'à 90% de poissons sous la taille légale. Les maquereaux capturés à l'aide d'hameçons dans un contexte de pêche commerciale font en sorte que la mâchoire des poissons se déchire lorsque les poissons sont embarqués à bord des bateaux. Nous n'avons toutefois aucune données/information sur le taux de survie suite à la remise à l'eau, mais de vue réglementaire, le pêcheur se doit de remettre à l'eau toutes prises sous la taille légale.

Ne connaissant pas le potentiel de survie suite à la remise à l'eau, un support des sciences est requis afin d'encadrer une approche visant à développer un TAC pour une pêche sans taille minimale.

Justification de la demande d'appui ou d'avis : *Cette demande permet d'adresser quelle(s) priorité(s) du MPO (régional, national et/ou ministériel) ou du gouvernement du Canada?*

- Conservation et pêches durables.

- L'approvisionnement en l'appât (i.e. maquereau) et la gestion de celle-ci est lié à l'accréditation MSC des homardiers.

Cette demande aidera-t-elle le MPO à passer à une approche de gestion écosystémique? Par exemple, cette demande est-elle en lien avec les objectifs nationaux obligatoires de préserver la biodiversité, la productivité ou l'habitat, ou avec des objectifs écosystémiques régionaux plus précis (s'il y en a)? Y a-t-il des considérations précises relativement à l'écosystème qui devraient être prises en compte?

☐ Oui
☒ Non

Si oui, svp précisez

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Priorité accordée à cette demande ? *SVP, répartir équitablement l'ensemble de vos demandes soumises (par direction et/ou secteur) entre Haute, Moyenne et Basse priorités*

Haute ☒ Moyenne ☐ Basse ☐

INFORMATION ADDITIONNELLE (SVP, être le plus concis possible)

À votre connaissance, est-ce que d'autres secteurs font une requête pour un enjeu similaire au vôtre? Si oui, pouvez-vous présenter une requête unifiée?

Quel appui / participation attendez-vous du Secteur des sciences?

- ☐ Avis officiel du Secrétariat canadien des consultations scientifiques
- ☐ Participation à un groupe de travail/comité/réunion
- ☒ Conseil expert
- ☒ Information scientifique
- ☐ Autres, précisez

Votre demande est-elle nécessaire pour répondre à des exigences légales ou réglementaires?

☒ Oui *Cette modification pourrait apporter des modifications réglementaires*
☐ Non

Est-ce que votre demande est d'intérêt pour le public, les médias et/ou le gouvernement (autre que le MPO) ou a-t-elle des implications aux niveaux local, régional, national ou international?

☐ Oui
☒ Non

Votre demande est-elle nécessaire pour répondre à des engagements internationaux?

☐ Oui
☒ Non

Détails administratifs

Date à laquelle une réponse ou une action est requise

Date requise (jj/mm/aaaa) : Hiver 2017

Justification de cette date : Possiblement entamer discussion lors du prochain comité consultatif

Source de financement :

Avez-vous des fonds pour couvrir les coûts additionnels associés à cette demande (ex: travaux de terrain, analyse spéciale, frais de réunion, de traduction)?

☐ Oui
☒ Non

Approbation par la direction qui fait la demande

Date d'approbation par la directrice (ou de l'autorité déléguée) (jj/mm/aaaa) :

Nom de la directrice (ou de l'autorité déléguée) : **Maryse Lemire**

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Date de la demande
(jj/mm/aaaa) :

Tous les formulaires approuvés doivent être soumis au coordonnateur du Centre des avis scientifiques à l'adresse suivante : Charley.cyr@dfo-mpo.gc.ca

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Pêches et Océans Canada | Fisheries and Oceans Canada

Direction des Sciences
Région du Québec

Science Branch
Quebec Region

Le 14 février 2017

Notre réf. / Our ref.

February 14, 2017

Notre réf. / Our ref.

Notre réf./Our ref.

«Titre_1» «Prénom» «Nom»
«Nom_de_la_société»
«Adresse_Ligne_1»
«Adresse_Ligne_2»
«Ville»
«Code_postal»

Objet: Invitation à participer à la revue par les pairs de l'état des stocks de maquereau à l'Institut Maurice-Lamontagne.

Subject: Invitation to participate to the regional peer review meeting on mackerel stock assessment at the Maurice Lamontagne Institute

«Titre_Français»

Je désire vous inviter personnellement à participer à la prochaine revue par les pairs sur l'état des stocks de maquereau des sous-régions 3 et 4 qui aura lieu les **8 et 9 mars 2017 à 9h** à l'institut Maurice-Lamontagne en tant que participant externe au comité de revue scientifique. Le cadre de référence pour cette revue est présenté en annexe.

L'examen par les pairs se fait par un comité technique composé de scientifiques du MPO, de scientifiques externes, et d'intervenants dans le domaine des pêches ayant une connaissance approfondie de la pêche et qui peuvent contribuer de façon significative aux discussions scientifiques sur ces stocks. Le rôle du comité est d'identifier des questions et/ou des enjeux

Dear «Titre_Anglais»,

I would like to invite you personally to take part in the next Sub-Areas 3 and 4 Atlantic mackerel stock assessment review that will be held at the Maurice Lamontagne Institute on **March 8-9 2017 at 9 am** as an external member of the technical committee. The terms of reference for this review are joined in appendix.

The peer review is conducted by a technical committee consisting of DFO and outside scientists and representatives of the fishing industry with in-depth knowledge of the fisheries, thus being a source of meaningful input into scientific discussion of the stocks. The committee's role is to identify questions and/or issues not addressed in

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qui n'ont pas été traités dans les analyses présentées, incluant le déroulement de la pêche et les aspects mathématiques et statistiques, et d'identifier des faiblesses potentielles dans les données et/ou les méthodes utilisées pour les analyses et de contribuer à trouver des solutions à ces problèmes.

Votre rôle à la réunion sera de contribuer significativement, par vos connaissances et votre expérience, à une compréhension accrue de la dynamique du stock et de la pêche et à la préparation des avis scientifiques. Votre participation fournira une valeur ajoutée et une perspective externe sur les analyses présentées. Vous n'êtes pas invité à titre de représentant de votre secteur d'activité ou de votre organisation, mais bien pour contribuer à notre compréhension de la pêche.

Les discussions qui se dérouleront lors de ces rencontres seront centrées uniquement sur les aspects et enjeux scientifiques des évaluations de stocks et ne sont pas le lieu pour débattre de problèmes de gestion et/ou d'allocation de la ressource. De plus, compte tenu des discussions qui prévalent à ces rencontres, la nature et le contenu de celles-ci doivent demeurer confidentiels jusqu'à ce qu'un avis officiel ait été publié, habituellement quelques semaines après la fin des rencontres sur l'évaluation de l'état des stocks. Cela est particulièrement important dans le cas de pêches gérées par quotas individuels en raison des dangers de transfert de ces quotas basé sur de l'information privilégiée. Pour éviter ce genre de situation, les participants externes acceptent de ne pas

the analyses presented, such as the *modus operandi* of the fishery, mathematical and statistical factors, and potential flaws in the data and/or analytical methods applied, and to help find solutions to these problems.

Your role will be to contribute significantly in the meeting, by your knowledge and experience, to a greater understanding of the stock dynamic and the fishery and to the preparation of the scientific advice. Your participation will provide added value to the review and give an outside view on the analyses presented. You are not invited as a representative of your industry or association, but rather as an individual that can make a significant contribution to our understanding of the fishery.

The discussions held during this review will focus solely on scientific aspects and issues relating to stock assessment; it is not the right forum for debating management problems and/or resource allocation. Moreover, given the nature and content of the discussions, they must remain confidential until publication of the official notices, which usually takes place several weeks after conclusion of the review. This is particularly important in the case of those fisheries managed by individual quotas because of the risk of quota transfers on the basis of privileged information. To preclude such situations, outside participants agree not to buy, sell or exchange quotas or shares in quotas during the period extending from the beginning of the review until

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acheter, vendre ou échanger des quotas ou des parts de quotas pour la période comprise entre le début des rencontres d'évaluation et la publication des avis scientifiques. Le respect de la confidentialité est également très important dans les situations ou des participants doivent quitter une réunion avant qu'elle ne soit complétée. Ces derniers disposent alors d'informations préliminaires qui peuvent différer sensiblement des conclusions retenues par le comité de révision une fois la revue scientifique complétée. Toute divulgation de ces informations préliminaires serait non seulement contraire au principe de confidentialité évoqué précédemment, mais pourrait contribuer à la diffusion d'informations erronées sur l'état des ressources marines.

publication of the scientific conclusions. Confidentiality is also very important when participants must leave a meeting before the end. In such a situation, the information they have has a preliminary status and may vary substantially from the conclusions retained by the review committee once the scientific review is completed. Any disclosure of these preliminary results would not only violate the confidentiality principle described above, but would also contribute to the diffusion of erroneous information on the status of marine resources.

Si vous avez de l'information inédite à présenter, nous vous encourageons à soumettre des contributions écrites parce qu'il s'agit de la façon la plus efficace de contribuer aux évaluations. Dans la mesure du possible, celles-ci devront toutefois nous être acheminées au moins 10 jours avant la date prévue de la réunion. Les contributions orales seront aussi les bienvenues. Les participants externes sont priés de se présenter avec un sommaire de leur perspective pour la dernière année et, si possible, avec toute information pertinente en relation avec les années précédentes. Ces sommaires constitueront une bonne base pour la section *Points de vue additionnels des intervenants des Avis scientifiques*. Les documents seront acceptés dans les deux langues officielles, mais ne seront pas traduits.

If you have unpublished information to present, we urge you to submit it in writing, this being the most effective way to contribute to the review. If possible, send in your submissions at least 10 days before the planned date for the meeting. Verbal contributions are also welcome. Outside participants are asked to arrive with a brief statement of how they see the past year, adding, if possible, any useful information about previous years. These statements will make an excellent basis for the *Additional Stakeholder Perspectives* section. Submissions will be accepted in either official language, but will not be translated.

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Ces réunions se déroulent habituellement en français. Cependant, un service d'interprétation simultanée sera disponible pour cette revue.

Discussions usually take place in French. However, a service of simultaneous translation will be available for this review.

Les participants ont la responsabilité de prendre les arrangements nécessaires en ce qui a trait aux réservations d'hôtel et de transport ainsi que d'en assumer les coûts.

Participants are responsible for making the necessary travel arrangements and hotel reservations and for paying attendance costs.

Veuillez contacter M. Charley Cyr par téléphone au (418) 775-0825, par télécopieur au (418) 775-0679 ou par courriel à Charley.Cyr@dfo-mpo.gc.ca pour nous aviser si vous comptez être des nôtres, pour nous informer si vous prévoyez faire une présentation écrite ou orale, ou encore si vous avez des questions ou suggestions concernant le déroulement de ce processus de revue scientifique.

Please contact Charley Cyr by telephone at (418) 775-0825, by fax at (418) 775-0679, or by e-mail at Charley.Cyr@dfo-mpo.gc.ca to tell us if you will be there, if you intend to deliver a written or verbal presentation or if you have any question or suggestion to submit in relation with the conduct of this scientific review process.

Veuillez agréer, «Titre_1», mes salutations distinguées.

Sincerely,

Yves de Lafontaine
Directeur régional, Sciences / Regional Director, Sciences

p. j./ Encl.

c.c.

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Castonguay, Martin

De: Doniol-Valcroze, Thomas
Envoyé: 15 février 2017 16:18
À: Cyr, Charley; Castonguay, Martin; Dominique Gascon
Objet: RE: Compte rendu - révision du cadre d'évaluation du maquereau
Pièces jointes: PRO2017_Cadre Maquereau-fra_TDV.doc

Excellent travail !
J'ai fait quelques corrections et clarifications mineures.

Thomas

De : Cyr, Charley
Envoyé : 13 février 2017 16:20
À : Doniol-Valcroze, Thomas; Castonguay, Martin; Dominique Gascon
Objet : Compte rendu - révision du cadre d'évaluation du maquereau

Bonjour,

Sonia m'a transmis le compte rendu de la rencontre sur le cadre d'évaluation du maquereau. Est-ce que vous pouvez le réviser svp.

Merci

Charley Cyr

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Ma langue, une question de respect
My language, a matter of respect

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Pêches et Océans Canada | Fisheries and Oceans Canada
Sciences des écosystèmes et des océans | Ecosystems and Oceans Science

Secrétariat canadien de consultation scientifique (SCCS)

Compte rendu 2017/

Région du Québec

Compte rendu de l'examen régional par des pairs portant sur la révision du cadre d'évaluation du maquereau bleu des sous-régions 3 et 4

18-20 janvier 2017
Mont-Joli, Québec

Président : Dominique Gascon
Rapporteure : Sonia Dubé

Institut Maurice Lamontagne
Pêches et Océans Canada
850, Route de la Mer, C.P. 1000
Mont-Joli, Québec, G5H 3Z4

Mois 2017

Canada

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Avant-propos

Le présent compte rendu a pour but de consigner les principales activités et discussions qui ont eu lieu au cours de la réunion. Il peut contenir des recommandations sur les recherches à effectuer, des incertitudes et les justifications des décisions prises pendant la réunion. Le compte rendu peut aussi faire état de données, d'analyses ou d'interprétations passées en revue et rejetées pour des raisons scientifiques, en donnant la raison du rejet. Bien que les interprétations et les opinions contenues dans le présent rapport puissent être inexactes ou propres à induire en erreur, elles sont quand même reproduites aussi fidèlement que possible afin de refléter les échanges tenus au cours de la réunion. Ainsi, aucune partie de ce rapport ne doit être considérée en tant que reflet des conclusions de la réunion, à moins d'une indication précise en ce sens. De plus, un examen ultérieur de la question pourrait entraîner des changements aux conclusions, notamment si des renseignements supplémentaires pertinents, non disponibles au moment de la réunion, sont fournis par la suite. Finalement, dans les rares cas où des opinions divergentes sont exprimées officiellement, celles-ci sont également consignées dans les annexes du compte rendu.

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SOMMAIRE

Ce document renferme le compte rendu de l'examen régional par des pairs portant sur la révision du cadre d'évaluation du maquereau bleu des sous-régions 3 et 4. Cette rencontre, qui s'est déroulée du 18 au 20 janvier 2017 à l'Institut Maurice-Lamontagne à Mont-Joli, a réuni plus d'une trentaine de participants issus des sciences et de la gestion du MPO de même que des représentants de l'industrie, du milieu universitaire, des représentants provinciaux et du NOAA. Ce compte rendu contient l'essentiel des présentations et des discussions qui ont eu lieu pendant la réunion et fait état des recommandations et conclusions émises au moment de la revue.

SUMMARY

Mis en forme : Français (Canada)

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INTRODUCTION

Dans les provinces maritimes, à Terre-Neuve et au Québec (sous-régions 3 et 4 de l'OPANO), plus de 15 000 pêcheurs commerciaux pratiquent la pêche au maquereau bleu. Celle-ci se déroule généralement près des côtes à l'aide du filet maillant, de la turlutte, de la ligne à la main, de la senne et de la trappe. L'utilisation de ces engins de pêche varie selon la région et la période de l'année. Les débarquements canadiens de maquereau bleu sont sous-estimés puisque ce ne sont pas tous les livres de bord de la pêche d'appât qui sont remplis et qu'il y a des ventes directes en mer provenant de cette pêche. De plus, les prises de la pêche récréative, qui se déroule au cours des mois d'été le long de la côte atlantique, ne sont pas rapportées, tout comme les rejets de petits maquereaux. Ce problème des captures non comptabilisées a été soulevé à de nombreuses reprises au cours des évaluations précédentes. En attendant qu'un meilleur contrôle de la cueillette des données de pêche ne soit établi, il est possible de prendre en compte l'incertitude sur les captures manquantes au sein de modèles statistiques nouvellement développés.

L'abondance du maquereau bleu a été évaluée jusqu'à maintenant par une analyse séquentielle de populations (ASP). Cette ASP est calibrée par un indice d'abondance calculé à partir des données provenant d'un relevé des œufs qui se déroule annuellement dans le sud du golfe du Saint-Laurent. La dernière évaluation du maquereau des sous-régions 3 et 4 remonte à l'hiver 2014. Le logiciel qui était utilisé pour l'ASP est devenu désuet et ne fonctionne plus sur les systèmes récents. De plus, il ne pouvait prendre en compte les captures manquantes.

La Direction de la gestion des pêches et de l'aquaculture a sollicité un avis scientifique du maquereau bleu des eaux canadiennes pour les saisons de pêche 2017 et 2018. En prévision de cette évaluation, il est important de développer un nouveau modèle de dynamique de population afin d'estimer l'état de la ressource. Ce modèle statistique des prises selon l'âge devra être capable d'intégrer pleinement les différentes sources d'incertitude, y compris l'estimation des captures manquantes, et permettre le calcul de points de référence robustes. Le but de la présente rencontre est d'effectuer la revue de ce nouveau cadre d'évaluation pour le maquereau bleu des sous-régions 3-4. Des participants ont été invités à contribuer à cette revue à l'intérieur du cadre de référence défini pour celui-ci (Annexes 1 et 2). Le présent document constitue le compte rendu de cette réunion qui s'est déroulée du 18 au 20 janvier 2017.

Jour 1 – 18 janvier 2017

CONTEXTE

Le président de la réunion, M. Dominique Gascon, souhaite la bienvenue aux participants. M. Gascon effectue un rappel des objectifs visés par cette rencontre et apporte quelques précisions sur son déroulement. Un tour de table permet à chacun de se présenter.

Thomas Doniol-Valcroze, le biologiste attitré à l'évaluation du maquereau bleu des sous-régions 3 et 4, procède d'abord à une mise en contexte en présentant des informations générales sur le stock et sur la pêche commerciale, sur les données scientifiques disponibles ainsi que sur les principales problématiques. La dernière évaluation du maquereau bleu des sous-régions 3 et 4 remonte à l'hiver 2014 et la prochaine revue est prévue en mars 2017.

Le biologiste mentionne notamment qu'il s'agit d'un stock transfrontalier, ce qui implique que certains individus nés au Canada sont capturés dans la pêche américaine. Toutefois, les poissons nés aux États-Unis ne contribuent pas à la pêche canadienne. Des débarquements importants ont été observés dans les années 1980 et au cours de la période ~~2000-2009~~2001-

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2010, suivi d'un très bas niveau actuel. Plus des deux tiers de ces débarquements (2001-2010) sont attribuables à la province de Terre-Neuve.

Les données scientifiques proviennent principalement d'un relevé des œufs, dont l'indice de ponte totale permet d'obtenir un indice de la biomasse reproductrice, ~~de quelques relevés additionnels afin d'étendre ce relevé,~~ ainsi que d'un échantillonnage (longueur-poids-croissance, condition corporelle, prises à l'âge, maturité, indice gonado-somatique). Certaines considérations environnementales, soulevées notamment par les travaux de [redacted] (2015), devraient éventuellement être intégrées à l'évaluation. Des relevés additionnels ont été conduits pour vérifier l'existence d'autres sites de ponte potentiels mais aucun n'a été trouvé.

M. Doniol-Valcroze insiste sur la principale problématique qui affecte la qualité de l'évaluation, soit les prises non rapportées : maquereau utilisé comme appât pour la pêche au crabe et au homard, appât pour usage personnel, ventes de pêcheur à pêcheur, pêche récréative, cahiers de bord non remplis.

RÉVISION DU CADRE D'ÉVALUATION

PRÉCÉDENTES APPROCHES DE MODÉLISATION

Le biologiste dresse un bref portrait des approches utilisées pour les évaluations antérieures. De 1986 à 2012, les indices étaient principalement dérivés de la pêche et d'un relevé des œufs, qui se déroule annuellement dans le sud du golfe du Saint-Laurent. Puis, entre 2012 et 2014, l'abondance du maquereau bleu a été évaluée par une analyse séquentielle de populations (ASP). Cette ASP était calibrée par un indice d'abondance calculé à partir du relevé des œufs. Les mortalités naturelles (M) pour tous les groupes d'âge et toutes les années avaient été fixées à 0,2 lors de l'évaluation de 2012. Pour l'évaluation de 2014, des valeurs de M avaient été calculées selon la relation de Gislason *et al.* (2010). Les résultats indiquaient une rareté et une faiblesse des épisodes de recrutement depuis les années 1980, ainsi qu'un recrutement très faible depuis 2000. Les taux d'exploitation atteignant des valeurs élevées semblaient toutefois peu réalistes. Ces évaluations n'utilisaient que les prises déclarées et par conséquent, étaient soupçonnées de sous-estimer la taille réelle du stock. De plus, le logiciel ICA utilisé pour l'ASP est devenu désuet.

- On reconfirme que le relevé des œufs représente un indicateur fiable, tel que déjà discuté dans la revue des intrants.
- Selon des participants, il ne semble pas y avoir d'évidence d'œufs de maquereau bleu dans le nord du golfe et le nord-est de Terre-Neuve d'après les relevés actuels.

ANALYSE DES PRISES NON DÉCLARÉES

Les débarquements canadiens de maquereau bleu sont nettement sous-estimés en raison des captures non rapportées : pêche d'appâts pour utilisation personnelle ou vendus de pêcheur à pêcheur, pêche récréative, rejets de petits maquereaux, prises accessoires. De plus, il existe des différences entre les régions de gestion dans la manière de comptabiliser les prises. Les travaux de Mme Élisabeth ~~van~~ Van Beveren visaient à estimer les prises non déclarées. Mme ~~van~~ Van Beveren présente brièvement les résultats issus de la littérature et d'un sondage. Les résultats obtenus par les deux approches s'avèrent assez concordants. Les captures réelles représenteraient au moins 150 % des captures déclarées. Il y a donc une réelle nécessité d'ajuster les captures dans le nouveau modèle afin d'inclure cette incertitude. Ces résultats préliminaires serviront à informer ~~la~~ les versions « censurées ~~informée~~ » du nouveau modèle.

Des commentaires sont apportés par les participants :

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- Il est suggéré de considérer l'effort plutôt que les captures dans la pêche au homard pour évaluer les quantités d'appâts utilisés.
- Plusieurs participants, notamment bon nombre de représentants de l'industrie, jugent que l'information sur les prises non déclarées est incomplète et qu'elle sous-estime la réalité. D'autres sources seraient disponibles, en particulier auprès de l'industrie. On considère également que l'estimation des rejets de petits maquereaux demeure très relative (1,9 %).
- On rappelle qu'il s'agit d'une analyse préliminaire dont le but est d'estimer un maximum plausible et qu'il reste encore beaucoup d'information à recueillir. On invite d'ailleurs les participants à transmettre toute information complémentaire.
- De plus, on fait mention d'autres prises non rapportées issues des pêches américaines et étrangères. Une partie des prises de maquereau bleu des sous-régions 5 et 6 devraient éventuellement être considérées dans l'évaluation du stock des sous-régions 3 et 4.
- De façon générale, l'analyse des prises non déclarées apparaît conservatrice. Toutefois, comme cela constitue uniquement une valeur d'entrée quant au plafond des prises, qui pourra être mise à jour au fur et à mesure que de nouvelles données seront disponibles, ceci ne discrédite en rien le nouveau modèle.

STRUCTURE DU MODÈLE DE PRISE À L'ÂGE

Afin de considérer l'incertitude liée aux prises manquantes, une approche relativement récente consiste à utiliser des modèles dits « censurés » dans lesquels les prises déclarées sont considérées explicitement comme biaisées. La valeur exacte des prises supplémentaires est inconnue, mais l'information disponible est utilisée, par exemple, pour imposer des limites inférieures et supérieures.

Mme ~~van~~ Van Beveren décrit la structure et les composantes du nouveau modèle développé dans Template Model Builder (TMB), une librairie R qui permet d'ajuster rapidement des modèles non-linéaires complexes et qui incluent des effets aléatoires. TMB permet le calcul de la fonction à optimiser. Cette optimisation se fait ensuite dans R et permet l'estimation des paramètres. Toutes les équations d'observation sont sur une échelle logarithmique et on présume que les erreurs d'observation et de processus sont distribuées de manière normale. Les variables aléatoires sont la mortalité par la pêche (F_y) et l'abondance (N_{ay}). Le modèle utilise la série complète du relevé des œufs (contrairement aux évaluations de 2012 et 2014). La mortalité naturelle (M) est fixée à 0,2.

Quelques commentaires sont apportés par les participants :

- On s'interroge sur la valeur utilisée pour M. Certains participants croient qu'on devrait utiliser une relation faisant varier la mortalité à l'âge, tel qu'effectué dans l'évaluation de 2014 (relation de Gislason *et al.* 2010), avec un M plus élevé aux jeunes stades.
- Quelques participants mentionnent la possibilité d'inclure le relevé ~~des œufs~~ directement comme un indice ~~indépendant~~de production des œufs et non comme un indice de la biomasse reproductrice.
- Par ailleurs, on précise qu'il serait possible d'ajuster la limite supérieure (le plafond), si on juge que les prises manquantes sont sous-estimées.

COMPARAISON DES MODÈLES, DIAGNOSTICS ET PERFORMANCE

Trois versions du nouveau modèle ont été explorées : 1) pas de censure, où l'on présume que les prises réelles correspondent aux prises déclarées; 2) censure arbitraire, où l'on présume

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que la limite supérieure des prises est égale à 1,75 fois les prises déclarées (en se basant sur le sondage en ligne); 3) censure informée, où la limite supérieure des prises varie dans le temps et est calculée à partir des estimations des prises pour l'appât, des pêches récréatives et des rejets. Une analyse de sensibilité a également été réalisée pour chaque scénario censuré en fonction de différents niveaux de limite supérieure.

- Le fait d'inclure des prises non déclarées dans le modèle ne change pas la composition en âge, ni notre perception de la mortalité par la pêche.
- Les résidus ne présentent pas de patrons particuliers. Les modèles semblent bien s'ajuster aux données d'observation, bien que l'indice des œufs soit plus élevé que les prédictions du modèle pour les années avant 1995. Les participants s'interrogent sur la possibilité d'un apport externe d'œufs ou sur un changement dans la capturabilité (q).
- Après quelques discussions sur la possibilité d'estimer q sur deux périodes (étant donné le changement de navire et d'engin), on convient de travailler avec une seule valeur de q puisqu'on doute fortement que cela affecte les résultats.
- De façon générale, on observe que les modèles censurés prédisent des prises plus élevées que les prises déclarées. Par contre, on observe une sous-estimation de la biomasse avant 1995. Ce phénomène pourrait être dû aux erreurs de processus et d'observation relativement élevées.
- On note qu'une flexibilité supplémentaire donnée au modèle par une limite supérieure plus élevée permet un meilleur ajustement aux données.
- L'assemblée souligne à nouveau l'importance de bien informer le modèle quant à cette limite supérieure.

Il apparaît difficile de comparer l'ancien modèle d'évaluation analytique (ICA) et la nouvelle approche (TMB) étant donné certaines différences de base entre les modèles et l'impossibilité d'exécuter à nouveau le modèle ICA pour effectuer une comparaison quantitative. Les patrons généraux des tendances de la biomasse reproductive et de la mortalité par la pêche sont toutefois similaires et les conclusions concernant la trajectoire du stock sont les mêmes. Les modèles TMB censurés et non-censurés présentent tous deux un patron rétrospectif ~~inférieur~~ moindre ~~au~~ que le modèle ICA.

- L'un des problèmes de l'évaluation précédente, basée sur le modèle ICA, est que les prises déclarées représentaient une large proportion de la biomasse reproductrice (jusqu'à 87 %) pour les années récentes. Considérant les informations sur les prises non déclarées, l'approche censurée apparaît plus plausible.
- Il est suggéré de revoir la comparaison du modèle ICA et du modèle TMB, en utilisant la même relation pour calculer M (Gislason *et al.* 2010) de même que la série du relevé des œufs à partir de 1996. Ce point sera revu le lendemain. Toutefois, on rappelle que le but de la réunion ne consiste pas à comparer ces deux modèles, mais à évaluer le nouveau modèle présenté.
- Considérant les commentaires de l'assemblée concernant la sous-estimation des prises non rapportées, il est suggéré d'évaluer sommairement l'impact d'une augmentation du plafond. Cet aspect sera également rediscuté le lendemain.

Jour 2 – 19 janvier 2017

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RETOUR SUR LES ~~NOUCELLES~~ NOUVELLES FIGURES

Comparaison avec le modèle ICA

On tente de mieux comparer les deux modèles en utilisant, pour le modèle TMB, les mêmes paramètres que ceux utilisés dans le modèle ICA lors de l'évaluation de 2014 (ex : M selon la relation de Gislason *et al.* 2010; série du relevé des œufs à partir de 1996).

- Il est toutefois difficile d'interpréter ce qui se passe avec le modèle ICA, car on ne sait pas très bien ce qui a été fait. Ce modèle manque de transparence.
- L'assemblée conclut qu'on ne peut pas réellement comparer les modèles puisqu'ils sont structurés différemment.
- Grâce au travail de Mme ~~van~~ Van Beveren, le nouveau modèle permet d'avoir une version non-censuré et une version censurée. Ainsi, la comparaison avec l'ancien modèle n'apparaît pas nécessaire.
- On rappelle que le nouveau modèle a l'avantage d'être transparent, flexible et il permet l'inclusion d'une version censurée qui quantifie l'incertitude sur les captures manquantes.

Sensibilité au choix du plafond

La sensibilité du modèle au choix du plafond a été revue au moyen de figures plus claires.

- Une fois encore, on observe que la flexibilité supplémentaire donnée au modèle par une limite supérieure plus élevée lui permet de mieux s'ajuster aux données.
- Le choix de la limite supérieure a donc de l'importance, d'où la nécessité de bien informer le modèle en étant le plus réaliste possible.

PARAMÈTRES DU MODÈLE

Recrutement partiel

La mortalité par la pêche (F) a été estimée par le modèle ~~dans~~ pour les premi~~ers~~ères ~~années~~ âges et présumée constante pour les âges de 6 ans et plus.

- Selon les participants, le maquereau bleu serait pleinement recruté à un plus jeune âge.
- On s'interroge donc sur la possibilité d'imposer une limite à un plus jeune âge (ex : 4-5 ans) ~~ou d'utiliser une moyenne sur toute la période~~et d'estimer les changements de sélectivité au cours du temps.
- On convient d'effectuer différents essais, par exemple : fixer la limite à 4-5 ans; laisser varier la sélectivité dans le temps.

Relation stock-recrue (S-R)

Mis en forme : Anglais (États Unis)

Une relation stock-recrue de Beverton-Holt avec l'inclusion d'un effet environnemental a été utilisée afin de modéliser le recrutement à l'âge 1. Cette approche représente mieux la variabilité interannuelle du recrutement, mais elle n'explique pas les événements de forts recrutements.

- L'assemblée s'interroge sur l'utilité réelle de cette relation dans le modèle. Dans le cas où cette relation est jugée utile, doit-on y inclure un effet environnemental?

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- Il semble que la relation stock-recrue permet surtout de déterminer des points de référence. Toutefois, d'autres approches pourraient être utilisées (ex : étudier ~~les~~ la fréquence des événements par bloc de temps).
- Pour l'instant, on décide de conserver la relation stock-recrue puisqu'elle a peu d'impact dans le modèle. Toutefois, comme elle affecte la détermination des points de référence, il faudra repenser l'approche.
- Pour suivre la tendance actuelle, on conserve également l'effet environnemental qui semble toutefois avoir peu d'impact. Une discussion au sein du MPO devrait avoir lieu sur la façon de considérer l'effet environnemental dans l'ensemble des évaluations de stock.

Mortalité naturelle (M)

On a revu la version censurée du modèle en utilisant la relation de Gislason *et al.* (2010) pour calculer M.

- Les résultats obtenus diffèrent de ceux obtenus lorsque M est fixé à 0,2. Cet effet apparaît tout de même notable.
- On s'interroge sur ce qui a justifié l'emploi d'un M variant à l'âge (Gislason *et al.* 2010) lors de l'évaluation de 2014 plutôt qu'un M fixe? Après quelques recherches, il semble que ce choix remonte à un atelier présenté en 2013.
- Il est donc proposé de déterminer un vecteur de M qui varie à l'âge mais en se basant sur les années récentes (après 1999), ce qui correspond davantage au régime actuel.

POINTS DE RÉFÉRENCE ET APPROCHE DE PRÉCAUTION

M. Doniol-Valcroze présente brièvement trois méthodes potentielles pour déterminer le point de référence limite (PRL), lesquelles se basent sur : 1) la relation stock-recrue; 2) la biomasse la plus faible à partir de laquelle un rétablissement a été observé (B_{rec}); et 3) 40%B_{msy} en utilisant F40% comme proxy. Il s'avère que la relation stock-recrue est difficile à trouver pour de grands recrutements. La méthode du B_{rec}, quant à elle, ne représente pas une estimation conservatrice de B_{lim} et est donc peu recommandable. ~~B_{msy}~~ F40% constitue une approche utile lorsque la relation stock-recrue n'est pas claire. De plus, cette dernière approche est issue de la définition du cadre canadien pour l'Approche de Précaution (DFO 2006). Quel que soit le point de référence limite choisi, le stock se ~~situe~~ situait en 2013 dans la zone critique.

- Les participants semblent prioriser la méthode issue du cadre canadien pour l'Approche de Précaution (40%Bmsy). Bien que d'autres approches puissent être évaluées en fonction de la sensibilité du modèle, cette dernière approche est largement utilisée et apparaît suffisamment robuste.
- Il y a ainsi un consensus au sein de l'assemblée pour déterminer le PRL d'après ~~40%Bmsy~~ (F40%).

PROJECTIONS ET TAC

Deux questions principales sont soulevées : Comment effectuer les projections? Comment établir les TAC?

- Considérant l'inclusion des prises non déclarées dans la version censurée du modèle, les participants se questionnent sur la façon d'établir les TAC à partir des projections.

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- On doit considérer les projections davantage comme un potentiel de captures (incluant les prises non déclarées) qu'un TAC commercial.
- On s'interroge sur ce qui devrait guider le choix du F pour établir le TAC. Le F moyen (F=8%) de la période de stabilité (1968-1992) avait servi à recommander le TAC lors de la dernière évaluation (2014). Toutefois, selon les participants, ce F devrait représenter une option de dernier recours pour la prochaine évaluation.
- Les participants jugent qu'il serait approprié de présenter différents scénarios de F lors de l'évaluation de mars 2017, en tentant d'être le plus réaliste possible quant aux paramètres d'entrée.

Jour 3 – 20 janvier 2017

RÉCAPITULATION ET CONSENSUS

Les participants profitent de cette dernière journée de réunion pour revoir les points importants afin d'identifier clairement les consensus au sein de l'assemblée.

EMPLOI DU MODÈLE TMB

Validité statistique

L'assemblée semble à l'aise avec la validité statistique du modèle, lequel est jugé transparent et s'ajustant bien aux données observées. Il y a donc un consensus quant au choix du modèle. Il représente, selon les participants, une amélioration méthodologique. On souligne d'ailleurs l'excellent travail réalisé.

Approche censurée versus non-censurée

À cette étape-ci, l'assemblée est d'avis que les deux approches (censurée et non-censurée) doivent être conservées. Les résultats de ces deux approches seront présentés lors de la rencontre d'évaluation en mars 2017.

Plafond intuitif ou variant dans le temps selon les nouvelles données disponibles

Il est décidé par l'assemblée d'utiliser un plafond variant dans le temps. Ce plafond sera mis à jour au fur et à mesure que de nouvelles informations sur les captures non rapportées seront disponibles. Cette approche s'accorde avec une préoccupation soulevée à plusieurs reprises par les participants, qui est d'informer le modèle le plus précisément possible. Plusieurs intervenants réitèrent leur intérêt à collaborer. En plus des prises non déclarées associées à la pêche d'appâts, à la pêche récréative, aux rejets de petits poissons et aux prises accessoires, on rappelle qu'il faudra éventuellement tenir compte des captures non déclarées issues des pêches américaines et étrangères.

Pour la prochaine rencontre d'évaluation (mars 2017), il est recommandé par l'assemblée de présenter divers scénarios de plafond afin de pouvoir juger du scénario le plus vraisemblable.

PARAMÉTRISATION DU MODÈLE

Mortalité naturelle (M)

Il est convenu et accepté par l'assemblée de recalculer M selon la relation de Gislason *et al.* (2010) pour la période récente (après 1999), ce qui correspond davantage au régime actuel. Ce M sera désagrégé par âge mais fixe dans le temps : $M_{1\text{-}3} > M_{\text{adulte}} \sim 0{,}2$.

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Recrutement partiel

On propose de fixer le plein recrutement à 4-5 ans et de laisser varier la sélectivité aux premiers âges. Il est aussi suggéré de faire un essai en laissant varier la sélectivité dans le temps.

Relation S-R

Même si la relation stock-recrue ne sera pas prise en compte dans l'établissement de points de référence, l'assemblée décide de conserver la relation stock-recrue de Beventon-Holt (avec distribution d'erreur normale) dans la modélisation et d'inclure un effet environnemental.

DÉVELOPPEMENTS DU MODÈLE

Les points suivants sont mentionnés en lien avec le développement du modèle :

- L'exploration de l'addition d'une partie des prises américaines et étrangères;
- L'ajustement à l'indice d'abondance des œufs directement (versus indice de SSB);
- Le vecteur de Lorenzen ajusté pour M comme une alternative à la méthode de Gislason.

POINTS DE RÉFÉRENCE ET PROJECTIONS

Détermination du PRL d'après $F_{40\%}$

Tel que déjà mentionné, il y a un consensus au sein de l'assemblée pour déterminer le PRL d'après $F_{40\%}$. Cette approche est issue du cadre canadien pour l'Approche de Précaution (MPO 2006).

Projections

En ce qui concerne les projections, il a été convenu de présenter différents scénarios de F lors de la rencontre d'évaluation (mars 2017), en tentant d'être le plus réaliste possible quant aux paramètres d'entrée.

Finalement, le président de la réunion clôt la rencontre en remerciant l'ensemble des participants.

RÉFÉRENCES

Gislason, H., Daan, N., Rice, J. C. et Pope, J. G. 2010. Size, growth, temperature and the natural mortality of marine fish. Fish and Fisheries. 11: 149–158.

MPO. 2006. Stratégie de pêche en conformité avec l'approche de précaution. Secr. Can. de consult. sci. du MPO, Avis sci. 2006/023.

Plourde et al. 2015.

Mis en forme : Anglais (États Unis)

Mis en forme : Français (Canada)

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ANNEXE 1- LISTE DES PARTICIPANTS

Nom	Affiliation	18 janv.	19 janv.	20 janv.
Aeberhard, William	Université Dalhousie	X	X	X
Benchabane, Samir	MAPAQ	X	X	
Bernier, Denis	MPO Sciences	X	X	X
Bourdages, Hugo	MPO Sciences	X	X	
Brosset, Pablo	MPO Sciences	X	X	
Bruneau, Benoît	MPO Sciences	X		
Carruthers, Erin	FFAW	X	X	X
Castonguay, Martin	MPO Sciences	X	X	X
Curti, KierksterKiersten	NOAA	X	X	X
Cyr, Charley	MPO Sciences	X	X	
Desgagnés, Mathieu	MPO Sciences	X	X	X
Doniol-Valcroze, Thomas	MPO Sciences	X	X	X
Dubé, Sonia	MPO Sciences	X	X	X
Duguay, Gilles	RPPSG	X	X	X
Duplisea, Daniel	MPO Sciences	X	X	X
Émond, Kim	MPO Sciences	X	X	X
Gascon, Dominique	MPO Sciences	X	X	X
Giffin, Melanie	PEIFA	X	X	X
Gilbert, Michel	MPO Sciences	X	X	
Huard, David-Henri	RPPSG	X	X	X
Hurtubise, Sylvain	MPO Sciences	X		
Langille, Ryan	Industrie	X	X	X
Légaré, Benoît	MPO Sciences	X	X	X
MacEwen, Dave	PEIFA	X	X	X
Maguire, Jean-Jacques	Consultant	X	X	X
Marentette, Julie	MPO – NCR	X	X	X
McQuinn, Ian	MPO Sciences	X	X	X
Perrin, Geneviève	MPO Sciences	X		
Rivierre, Antoine	MPO Gestion des pêches	X	X	X
Robert, Dominique	UQAR	X		
Roy, Virginie	MPO Sciences	X		
Van Beveren, Elisabeth	MPO Sciences	X	X	X

Mis en forme : Anglais (États Unis)

Mis en forme : Anglais (États Unis)

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ANNEXE 2- CADRE DE RÉFÉRENCE

Révision du cadre d'évaluation du stock de maquereau bleu du nord-ouest de l'Atlantique (sous-régions 3 et 4)

Examen régional par des pairs – région du Québec

Du 18 au 20 janvier 2017
Mont-Joli (Québec)

Président : Dominique Gascon

Contexte

Dans les provinces maritimes, à Terre-Neuve et au Québec (sous-régions 3 et 4 de l'OPANO), plus de 15 000 pêcheurs commerciaux pratiquent la pêche au maquereau bleu. Celle-ci se déroule généralement près des côtes à l'aide du filet maillant, de la turlutte, de la ligne à la main, de la senne et de la trappe. L'utilisation de ces engins de pêche varie selon la région et la période de l'année. Les débarquements canadiens de maquereau bleu sont sous-estimés puisque ce ne sont pas tous les livres de bord de la pêche d'appât qui sont remplis et qu'il y a des ventes directes en mer provenant de cette pêche. De plus, les prises de la pêche récréative, qui se déroule au cours des mois d'été le long de la côte atlantique, ne sont pas rapportées, tout comme les rejets de petits maquereaux. Ce problème des captures non comptabilisées a été soulevé à de nombreuses reprises au cours des évaluations précédentes. En attendant qu'un meilleur contrôle de la cueillette des données de pêche ne soit établi, il est possible de prendre en compte l'incertitude sur les captures manquantes au sein de modèles statistiques nouvellement développés.

L'abondance du maquereau bleu a été évaluée jusqu'à maintenant par une analyse séquentielle de populations (ASP). Cette ASP est calibrée par un indice d'abondance calculé à partir des données provenant d'un relevé des œufs qui se déroule annuellement dans le sud du golfe du Saint-Laurent. La dernière évaluation du maquereau des sous-régions 3 et 4 remonte à l'hiver 2014. Le logiciel qui était utilisé pour l'ASP est devenu désuet et ne fonctionne plus sur les systèmes récents. De plus, il ne pouvait prendre en compte les captures manquantes.

La Direction de la gestion des pêches et de l'aquaculture a sollicité un avis scientifique du maquereau bleu des eaux canadiennes pour les saisons de pêche 2017 et 2018. En prévision de cette évaluation, il est important de développer un nouveau modèle de dynamique de population afin d'estimer l'état de la ressource. Ce modèle statistique des prises selon l'âge devra être capable d'intégrer pleinement les différentes sources d'incertitude, y compris l'estimation des captures manquantes, et permettre le calcul de points de référence robustes. Le but de la présente rencontre est d'effectuer la revue de ce nouveau cadre d'évaluation pour le maquereau bleu des sous-régions 3-4. L'évaluation du stock de maquereau bleu des sous-régions 3 et 4 est prévu en mars 2017.

Objectifs

- Présenter les résultats d'un sondage en ligne effectué auprès des pêcheurs et d'une analyse des besoins en appâts afin d'estimer une limite supérieure pour les captures non-déclarées de la pêche pour l'appât;
- Sélectionner les modèles pour évaluer l'état du stock et la productivité du maquereau des sous-régions 3-4, plus précisément la taille du stock, la composition des captures à l'âge et la mortalité par pêche :
    - Déterminer la méthodologie qui permet d'estimer les captures manquantes;
    - Déterminer la performance des modèles (avec et sans la capture manquante) au moyen de diagnostics et d'analyses de sensibilité (ajustement aux données et résidus, analyses rétrospectives, sensibilité aux principaux paramètres de productivité du stock);
- Déterminer la méthodologie permettant de caractériser la productivité des stocks, notamment les points de référence de la mortalité par pêche et de la biomasse du stock reproducteur, ainsi que les états passés, actuels et prévus relativement à ces points.

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Publications prévues

- 1 compte rendu
- 2 documents de recherche

Participation

- Pêches et Océans Canada (MPO) (Secteurs des Sciences et de la Gestion des Pêches)
- Représentants de NOAA / National Marine Fisheries Service, USA
- Représentants de l'Industrie
- Représentants provinciaux
- Universitaires
- Communautés ou organisations autochtones
- Organisations non gouvernementales à vocation environnementale

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Cyr, Charley

De: Cyr, Charley
Envoyé: 20 février 2017 09:21
À: CSAS / SCCS (DFO/MPO)
Cc: Foster, Sophie
Objet: cadre de référence - évaluation des stocks de maquereau des sous-régions 3 et 4 : 8 et 9 mars 2017
Pièces jointes: Cadre_Maquereau_2017_Fr.docx; ToR Mackerel_2017_en.docx

Bonjour,

Voici le cadre de référence pour la prochaine revue sur les stocks de maquereau des sous-régions 3 et 4 pour affichage.

Merci

Charley Cyr

Directeur, Avis, Informations et soutien scientifiques
Direction régionale des Sciences
Pêches et Océans Canada / Gouvernement du Canada
charley.cyr@dfo-mpo.gc.ca / Tél.: 418-775-0825

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Science Regional Branch
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My language, a matter of respect

Pages 561 to / à 564
are duplicates of
sont des duplicatas des
pages 520 to / à 523

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Thomas, Tashina

From: Thomas, Tashina
Sent: February-21-17 11:29 AM
To: Lester, Brian; Kerwin, Jessica; Cawthray, Jenness; Mallet, Pierre
Cc: Taylor, Peter
Subject: RE: Mackerel COL

Categories: Green Category

Thanks for clarifying this guys!

Tashina

From: Lester, Brian
Sent: February-21-17 11:25 AM
To: Kerwin, Jessica; Cawthray, Jenness; Thomas, Tashina; Mallet, Pierre
Cc: Taylor, Peter
Subject: RE: Mackerel COL

I agree with Peter's assessment below as to what was discussed related to the mackerel COL.

From: Kerwin, Jessica
Sent: 2017–February-21 9:25 AM
To: Lester, Brian; Cawthray, Jenness
Subject: FW: Mackerel COL

From: Taylor, Peter
Sent: February 21, 2017 9:12 AM
To: Thomas, Tashina; Mallet, Pierre; Kerwin, Jessica
Subject: RE: Mackerel COL

I believe that was the Maritime Region. They are going to have a COL on their 2017 trap net and weir licences that will provide a legal mechanism to shut down these gear types. Currently, a VO does not apply to these gear types. In the Gulf, we do not have weir licences and our coastal mackerel fish traps are not active. Mostly due to the 10 % regulation.

At least that is what I recall. However, I will wait for Pierre and Jessica to comment.

Peter

From: Thomas, Tashina
Sent: February-21-17 9:36 AM
To: Mallet, Pierre; Kerwin, Jessica; Taylor, Peter
Subject: Mackerel COL

Hi,

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I have a note from the meeting in Montreal to add a clause to mackerel COL that "the fishery may be closed upon decision from Minister." I just want to make sure we are going forward with this before I start the vetting process.

Thanks,

Tashina Thomas
Regional Junior FAM Officer I Agente junior régionale GPA
Resource and Aboriginal Fisheries Management I Gestion de la ressource et des pêches authochtones
Gulf Region I Région du Golfe
Fisheries and Oceans Canada I Pêches et Océans Canada
P.O. Box 5030, Moncton NB E1C 9B6 I C.P. 5030, Moncton NB E1C 9B6
Telephone I Téléphone 506-851-6234
tashina.thomas@dfo-mpo.gc.ca

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Cormier, Mélanie

De: Richard, Josée
Envoyé: 22 février 2017 08:56
À: Rivierre, Antoine
Objet: Maquereau - comité consultatif Atlantique

Bonjour Antoine,

Est-ce que le comité consultatif Atlantique est toujours prévu pour le 29 mars à Halifax?

Peux-tu vérifier si les convocations sont parties? Je veux m'assurer que le RPPCI a été invité.

Merci de me tenir au courant,

Josée Richard
Gestion de la ressource | Resource management
Secteur des Iles-de-la-Madeleine | Magdalen Islands Area
Pêches et Océans Canada | Fisheries and Oceans Canada
235, chemin Principal, porte 206
Cap-aux-Meules QC G4T 1R7
josee.richard@dfo-mpo.gc.ca
Téléphone | Telephone (418) 986-2390, poste 214 | ext. 214
Télécopieur | Facsimile (418) 986-5353
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Syed, Hamza

From: NCR Multimedia RCN (DFO/MPO)
Sent: February-22-17 3:31 PM
To: Rondeau, Isabelle; NCR Multimedia RCN (DFO/MPO)
Subject: RE: cadre de référence - évaluation des stocks de maquereau des sous-régions 3 et 4 : 8 et 9 mars 2017

Bonjour Isabelle,

These have been published to production.

Thanks,

Jobe

From: Rondeau, Isabelle
Sent: February-22-17 3:19 PM
To: NCR Multimedia RCN (DFO/MPO)
Subject: FW: cadre de référence - évaluation des stocks de maquereau des sous-régions 3 et 4 : 8 et 9 mars 2017

Bonjour,

The following ToR is ready for posting:
http://wwwstg.ncr.dfo-mpo.ca/csas-sccs/Schedule-Horraire/2017/03_08-09-fra.html
http://wwwstg.ncr.dfo-mpo.ca/csas-sccs/Schedule-Horraire/2017/03_08-09-eng.html

Merci,

Isabelle Rondeau

Web and Publications Administrator, Canadian Science Advisory Secretariat
Fisheries and Oceans Canada / Government of Canada
Isabelle.Rondeau@dfo-mpo.gc.ca / Tel: 613-990-0293

Administratrice de site Web et de publications, Secrétariat canadien de consultation scientifique
Pêches et Océans Canada / Gouvernement du Canada
Isabelle.Rondeau@dfo-mpo.gc.ca / Tél. : 613-990-0293

Government of Canada / Gouvernement du Canada

Canada

From: Cyr, Charley
Sent: February 20, 2017 9:21 AM
To: CSAS / SCCS (DFO/MPO)
Cc: Foster, Sophie
Subject: cadre de référence - évaluation des stocks de maquereau des sous-régions 3 et 4 : 8 et 9 mars 2017

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Bonjour,

Voici le cadre de référence pour la prochaine revue sur les stocks de maquereau des sous-régions 3 et 4 pour affichage.

Merci

Charley Cyr

Directeur, Avis, Informations et soutien scientifiques
Direction régionale des Sciences
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charley.cyr@dfo-mpo.gc.ca / Tél.: 418-775-0825

Director, Scientific Advices, Informations and Support
Science Regional Branch
Fisheries and Oceans Canada / Government of Canada
Charley.cyr@dfo-mpo.gc.ca / Tel.: 418-775-0825

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s.19(1)
s.21(1)(b)

Cormier, Mélanie

De: Lester, Brian
Envoyé: 24 février 2017 12:12
À: Castonguay, Martin; Doniol-Valcroze, Thomas; Mallet, Pierre; Gaudet, Mario; Waters, Christa; Dunne, Erin; Rivierre, Antoine
Cc: Cawthray, Jenness; Jenkins, Randy
Objet: Re: AMAC pre-meeting - March 29 pm in Halifax

Hello Martin: we can always meet [redacted] after you arrive in the 29th. I may still meet with Managers in the pm if possible.

I have to be in Corner Brook on the 8th [redacted] but I am planning on flying on the 8th: Deer Lake-Halifax-Montreal-Mont Joli in hopes I can make the RAP on the 9th...should work if I make my connections in Halifax and Montreal (45 mins if planes are on time) .

Sent from my BlackBerry 10 smartphone on the Rogers network.

From: Castonguay, Martin
Sent: Friday, February 24, 2017 11:45 AM
To: Lester, Brian; Doniol-Valcroze, Thomas; Mallet, Pierre; Gaudet, Mario; Waters, Christa; Dunne, Erin; Rivierre, Antoine
Cc: Cawthray, Jenness; Jenkins, Randy
Subject: RE: AMAC pre-meeting - March 29 pm in Halifax

Hi Brian,

The way flights are from Mont-Joli, Thomas and I would be landing at 19:15 on the 29th, i.e. we would get to the hotel only around 20:00.

Considering the novelty of the way by which we will be providing advice by incorporating missing catch, such a meeting seems like a good idea. However this means we would have to leave Mont-Joli the night before and stay over in Montréal.

It is certainly feasible.

Are you still planning on coming on March 8-9?

Martin

De : Lester, Brian
Envoyé : 24 février 2017 11:34
À : Doniol-Valcroze, Thomas; Castonguay, Martin; Mallet, Pierre; Gaudet, Mario; Waters, Christa; Dunne, Erin; Rivierre, Antoine
Cc : Cawthray, Jenness; Jenkins, Randy
Objet : AMAC pre-meeting - March 29 pm in Halifax

Hello all: As you are now aware the invite for the AMAC meeting went out yesterday and it will take place on March 30th in Halifax.

Document Released Under the Access to Information Act / Document divulgué en vertu de la Loi sur l'accès à l'information.

I assume that all of you will be coming to Halifax on the 29th so was hoping that you could book your travel to allow time for a pre-meeting on the 29th. I would suggest that we meet 2:30 or so for a couple of hours. Let me know if that will work for all of you.

Additionally I think I would like to have a call with the group after the RAP on March 8-9th.

Cheers
Brian

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Cormier, Mélanie

De: Lester, Brian
Envoyé: 24 février 2017 14:32
À: Rivierre, Antoine; Doniol-Valcroze, Thomas; Castonguay, Martin; Mallet, Pierre; Gaudet, Mario; Waters, Christa; Dunne, Erin
Cc: Cawthray, Jenness; Jenkins, Randy
Objet: Re: AMAC pre-meeting - March 29 pm in Halifax

Hello Antoine: As I noted, we will have a call at some point between the RAP and the Advisory so if arriving later on the 29th works best for you, we can try to cover off most issues on the conference call.

Sent from my BlackBerry 10 smartphone on the Rogers network.

From: Rivierre, Antoine
Sent: Friday, February 24, 2017 1:54 PM
To: Lester, Brian; Doniol-Valcroze, Thomas; Castonguay, Martin; Mallet, Pierre; Gaudet, Mario; Waters, Christa; Dunne, Erin
Cc: Cawthray, Jenness; Jenkins, Randy
Subject: RE: AMAC pre-meeting - March 29 pm in Halifax

Hello to all,
I have already booked a Quebec-Montreal-Halifax flight which should arrive in the early evening (19h30)....but I can change it.

For my part if I leave the morning of Québec City, I could arrive at the hotel around 3 pm. Is it something which work for you ?

Antoine

De : Lester, Brian
Envoyé : February-24-17 11:34 AM
À : Doniol-Valcroze, Thomas; Castonguay, Martin; Mallet, Pierre; Gaudet, Mario; Waters, Christa; Dunne, Erin; Rivierre, Antoine
Cc : Cawthray, Jenness; Jenkins, Randy
Objet : AMAC pre-meeting - March 29 pm in Halifax

Hello all: As you are now aware the invite for the AMAC meeting went out yesterday and it will take place on March 30th in Halifax.

I assume that all of you will be coming to Halifax on the 29th so was hoping that you could book your travel to allow time for a pre-meeting on the 29th. I would suggest that we meet 2:30 or so for a couple of hours. Let me know if that will work for all of you.

Additionally I think I would like to have a call with the group after the RAP on March 8-9th.

Cheers
Brian

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Cormier, Mélanie

De: Waters, Christa
Envoyé: 27 février 2017 12:52
À: Cawthray, Jenness; Mallet, Pierre; Dunne, Erin; Rivierre, Antoine
Objet: RE: Aboriginal Consultation for AMAC

Hello Again,
We have a few bands that do not hold commercial licences, but do hold bait licences. Would you be looking to include them too?
Christa

Christa Waters
Regional Senior Fisheries Management Advisor
Resource Management | Gestion des Pêches
Maritimes Region | Région des Maritimes
Telephone | Téléphone 902-293-6541

From: Cawthray, Jenness
Sent: February 27, 2017 12:56 PM
To: Waters, Christa; Mallet, Pierre; Dunne, Erin; Rivierre, Antoine
Subject: Aboriginal Consultation for AMAC
Importance: High

Hi Folks,
We are exploring holding a separate consultation with aboriginal groups the afternoon before ASAC. Can you please provide me with a list of contacts by Region that should be included. We should already have these groups in the attached list for the AMAC invitation.

Please provide by Wednesday the list of Aboriginal Groups that should attend this meeting by Region. Following this, we will send out a separate invitation to gauge interest in attending an AMAC meeting on the 29th.

Thank you,
Jenness

From: Browne, Ryan
Sent: February-27-17 11:49 AM
To: Cawthray, Jenness
Subject: RE: AMAC list

From: Cawthray, Jenness
Sent: February-27-17 11:20 AM
To: Browne, Ryan
Subject: AMAC list

Can you send me the latest and greatest list??
Thanks!

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Jenness Cawthray
Senior Fisheries and Aquaculture Management Officer |
Agent principal, Gestion des pêches et de l'aquaculture
Fisheries and Oceans | Pêches et océans
200 rue Kent Street - 13S013 Ottawa, ON, K1A 0E6
Jenness.Cawthray@dfo-mpo.gc.ca
Telephone | Téléphone (613) 998-1524
Facsimile | Télécopieur (613) 990-7051
Government of Canada | Gouvernement du Canada

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Cormier, Mélanie

De: Waters, Christa
Envoyé: 27 février 2017 12:03
À: Cawthray, Jenness; Mallet, Pierre; Dunne, Erin; Rivierre, Antoine
Cc: Lester, Brian
Objet: RE: Aboriginal Consultation for AMAC

Hello,

We have done this for Shrimp as a pilot project in Maritimes. It was a huge success, and they are looking to expand it to other fisheries. Given that our Region's Indigenous groups have showed a keen interest in mackerel, I am all for it. They felt that their concerns after the 2014 AMAC were not taken into consideration, this will go a long way to repairing those relationships.

Moreover I did not include every single group in the AMAC, so I think our list would be a bit longer.

I will get you the information ASAP.

Christa

Christa Waters
Regional Senior Fisheries Management Advisor
Resource Management | Gestion des Pêches
Maritimes Region | Région des Maritimes
Telephone | Téléphone 902-293-6541

From: Cawthray, Jenness
Sent: February 27, 2017 12:56 PM
To: Waters, Christa; Mallet, Pierre; Dunne, Erin; Rivierre, Antoine
Subject: Aboriginal Consultation for AMAC
Importance: High

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Sent: February-27-17 11:49 AM
To: Cawthray, Jenness
Subject: RE: AMAC list

Document Released Under the Access to Information Act / Document divulgué en vertu de la Loi sur l'accès à l'information.

From: Cawthray, Jenness
Sent: February-27-17 11:20 AM
To: Browne, Ryan
Subject: AMAC list

Can you send me the latest and greatest list??
Thanks!

Jenness Cawthray
Senior Fisheries and Aquaculture Management Officer |
Agent principal, Gestion des pêches et de l'aquaculture
Fisheries and Oceans | Pêches et océans
200 rue Kent Street - 13S013 Ottawa, ON, K1A 0E6
Jenness.Cawthray@dfo-mpo.gc.ca
Telephone | Téléphone (613) 998-1524
Facsimile | Télécopieur (613) 990-7051
Government of Canada | Gouvernement du Canada

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Thomas, Tashina

From: Mallet, Pierre
Sent: February-27-17 1:03 PM
To: Thomas, Tashina; Gaudet, Mario
Subject: FW: Aboriginal Consultation for AMAC
Attachments: Atlantic Mackerel Advisory Committee Members - 2016

Importance: High

Allo

Pouvez-vous svp vérifier la liste et ajouter si il y a lieu. Les bureaux de secteurs peuvent vous aider.
Merci

From: Cawthray, Jenness
Sent: February-27-17 12:56 PM
To: Waters, Christa; Mallet, Pierre; Dunne, Erin; Rivierre, Antoine
Subject: Aboriginal Consultation for AMAC
Importance: High

Hi Folks,
We are exploring holding a separate consultation with aboriginal groups the afternoon before ASAC. Can you please provide me with a list of contacts by Region that should be included. We should already have these groups in the attached list for the AMAC invitation.

Please provide by Wednesday the list of Aboriginal Groups that should attend this meeting by Region. Following this, we will send out a separate invitation to gauge interest in attending an AMAC meeting on the 29th.

Thank you,
Jenness

From: Browne, Ryan
Sent: February-27-17 11:49 AM
To: Cawthray, Jenness
Subject: RE: AMAC list

From: Cawthray, Jenness
Sent: February-27-17 11:20 AM
To: Browne, Ryan
Subject: AMAC list

Can you send me the latest and greatest list??
Thanks!

Jenness Cawthray
Senior Fisheries and Aquaculture Management Officer |
Agent principal, Gestion des pêches et de l'aquaculture

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200 rue Kent Street - 13S013 Ottawa, ON, K1A 0E6
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Government of Canada | Gouvernement du Canada

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Thomas, Tashina

Contact Group Name: Atlantic Mackerel Advisory Committee Members - 2016

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Members:

[redacted]
Assoc. des Senneurs du Golfe
Atlantic Herring Co-op [redacted]
[redacted]
aherring@eastlink.ca

[redacted] (Independent Fish Harvesters Association)

[redacted]
Benchabane, Samir
Samir.Benchabane@mapaq.gouv.qc.ca

[redacted] - Gespeg
[redacted] RPPNG)
Boudreau, Ginny
Boudreau, Suzie
gcifa@gcifa.ns.ca
Suzie.Boudreau@dfo-mpo.gc.ca

[redacted]
[redacted] président Inshore
Assoc. of inshore Fishermen of Magdalen Islands
inshorefishermen@hotmail.com

[redacted]
Castonguay, Martin
Martin.Castonguay@dfo-mpo.gc.ca
Cawthray, Jenness
cawthrayj.Cawthray@dfo-mpo.gc.ca
Chandler, Alan
chandlea@gov.ns.ca
[redacted] Regroupement des Palangriers et Petoncliers Uniques Madelinots
rppum@tlb.sympatico.ca

[redacted] - Regroupement des pecheurs professionnels du Sud de la Gaspesie
rppsg@globetrotter.net

[redacted]
Corbett, Frank (Nfld-Policy)
Frank.Corbett@dfo-mpo.gc.ca
[redacted] - Regroupement des Pecheurs Professionnels des Iles
rppim@tlb.sympatico.ca

[redacted] (ACPG)
[redacted]
Cronk, Ronald
Ronald.CRONK@gnb.ca
Cuddy, Lori
Lori.Cuddy@dfo-mpo.gc.ca
capebreeze@ns.aliantzinc.ca

[redacted] Assoc. des Pecheurs Proprietaires des Iles
appim@tlb.sympatico.ca

[redacted] - ACG
Desrosiers, Denis
Denis.Desrosiers@mapaq.gouv.qc.ca
[redacted] -AMG
Doniol-Valcroze, Thomas
Thomas.Doniol-Valcroze@dfo-mpo.gc.ca
Dooley, Tom
tdooley@gov.nf.ca
[redacted]
monksheadfisheries@gmail.com

s.19(1) Document Released Under the Access to Information Act / Document divulgué en vertu de la Loi sur l'accès à l'information.

Drapeau, André	Andre.Drapeau@dfo-mpo.gc.ca
[redacted] - (Regroupement des pêcheurs professionnels du Sud de la Gaspésie	
Dunne, Erin	Erin.Dunne@dfo-mpo.gc.ca
Dwyer, Alan	Alan.Dwyer@dfo-mpo.gc.ca
Ferguson, Louis (DAAF/MAAP)	Louis.Ferguson@gnb.ca
Fillion, Diana	Diana.Fillion@dfo-mpo.gc.ca
[redacted]	
Gulf Nova Scotia Bonafide Fishermen's Assoc.	
	gulfbonafide@gmail.com
Gulf Nova Scotia Fishermen's Coalition	
Hardy, Magalie	Magalie.Hardy@dfo-mpo.gc.ca
Inverness South Fishermen's Association	
Inverness South Fishermen's Association	
	invernesssouth@outlook.com
[redacted]	micmac@globetrotter.net
Johnston, Marc	Marc.johnston@gnb.ca
[redacted] - Assoc. des pêcheurs polyvalents de Old Fort à Blanc-Sablon	
[redacted]	
Kerr, Helen	Helen.Kerr@dfo-mpo.gc.ca
Kerwin, Jessica	Jessica.Kerwin@dfo-mpo.gc.ca
[redacted] - AGHAMM	
[redacted] (AC17)	
[redacted] - Regroupement des Pecheurs professionnels de la Haute et Moyenne Cote-Nord Inc.	
	rpphmcn@globetrotter.net
[redacted] - Alternate	
LeCouffe, Marc	Marc.LeCouffe@dfo-mpo.gc.ca
Lester, Brian (HQ)	Brian.Lester@dfo-mpo.gc.ca
[redacted]	
MacEwen, Dave	dgmacewen@gov.pe.ca
[redacted]	office@peispa.com
MacIsaac, Colin	Colin.MacIsaac@dfo-mpo.gc.ca
Mallet, Pierre	Pierre.Mallet@dfo-mpo.gc.ca
Maritime Fishermen's Union (Local 4)	
Maritimes Fishermen Union	shediac@mfu-upm.com
[redacted] - Listuguj	
Micmacs of Gesgapegiag Band Council	
Millbrook First Nation	
Morin, Mathieu	Mathieu.Morin@dfo-mpo.gc.ca
Morisset, Jean	Jean.Morisset@dfo-mpo.gc.ca
	gmfa@nb.aibn.com
[redacted]	
Naud, Marc	Marc.Naud@dfo-mpo.gc.ca
New Brunswick Wildlife Federation	
Niang, Aziz	Aziz.niang@mapaq.gouv.qc.ca

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[redacted] - représentant RPPCI	[redacted]
Northumberland Fishermen's Assoc.	[redacted]
Paq'tnkek Mi'kmaw Nation	
[redacted] PEI Fishermen's Assoc.	managerpeifa@pei.eastlink.ca
[redacted] Pictou Landing First Nation	[redacted]
[redacted] président RPPCI	[redacted]
Quinn, Frank	Frank.Quinn@dfo-mpo.gc.ca
Regroupement des Pêcheurs et Pêcheuses du cote des Iles	rppci@tlb.sympatico.ca
Richard, Josée	Josee.Richard@dfo-mpo.gc.ca
[redacted] Maritimes fishermen's Association	[redacted]
[redacted] Grand Chief - Innu Nation)	[redacted]
Rivierre, Antoine	Antoine.Rivierre@dfo-mpo.gc.ca
Ruest, Richard	Richard.Ruest@dfo-mpo.gc.ca
[redacted] Simms, Jason	[redacted] Jason.Simms@dfo-mpo.gc.ca
[redacted] Agence Mamu Innu Kaikusseht (AMIK)	[redacted]
[redacted] (Barry Group)	[redacted] president@ffaw.net
[redacted] The Native Council of PEI	[redacted]
The Netukulimkewe'l Commission	netcomm@ncnsnetcomm.ns.ca
The New Brunswick Aboriginal Peoples Council	
Wagmatcook First Nation	[redacted]
Waters, Christa	Christa.Waters@dfo-mpo.gc.ca
Waters, Christa (MAR)	Christa.Waters@dfo-mpo.gc.ca
Waycobah First Nation	
[redacted]	[redacted]

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Krohn, Martha

From: White, Andrea
Sent: February-28-17 4:14 PM
To: Hodgins, Jill
Cc: Ryan, Patricia; Landry, Jean; Beauchamp, Brittany; Krohn, Martha
Subject: TAB 7 - Atlantic Mackerel
Attachments: SECRET - Tab 7 - Upcoming issues Mackerel Feb 27 2017.docx

Importance: High

Categories: Red Category

Hi Jill,

Apologies for the delay, attached is ESD's DG-approved TAB 7 input re: an upcoming Atlantic mackerel assessment.

Thanks,
Andi

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TAB 7 - UPCOMING ISSUES AND DECISIONS

#	ISSUE	DESCRIPTION	IMPACT	NEXT STEPS / STATUS
	Ecosystems and Fisheries Management			
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
	Coast Guard			
11				
	Ecosystems and Oceans Science			
12	Stock Assessment of Atlantic Mackerel	A Zonal Scientific Peer Review meeting will be held in Mont-Joli, QC, on March 8-9, 2017 to assess Atlantic Mackerel in NAFO Subareas 3 and 4. The last stock assessment for these subareas was held in 2014 and indicated that the stock was in the Critical Zone, at the lowest levels in the historical time series. At that time, the industry perception of the stock was more optimistic than that presented by DFO Science.	Landings for Atlantic Mackerel have reached historic lows in recent years, with 2015 being the lowest on record. However, landings in 2016 increased, achieving the Total Allowable Catch of 8000 t, resulting in early closure of the fishery. This upcoming assessment will use a new scientific model that can better account for the high degree of uncertainty in unreported catches, along with new calculations for the Precautionary Approach Limit Reference Point. While we cannot predict the outcomes of the meeting, it is anticipated that the new assessment methods will better account for uncertainties raised at the 2014 assessment.	The Science Advisory Report from this meeting will be posted on the Canadian Science Advisory Secretariat website within weeks of the conclusion of the peer-review meeting. However, stakeholders will attend and will be aware of the results. EOS staff will coordinate with colleagues in EFM and Communications to prepare media lines related to the outcomes of the peer review meeting. The Atlantic Mackerel Advisory Committee meeting is scheduled for March 30 2017.
	Chief Financial Officer			
13				
	Strategic Policy			

Prepared by: Strategic Policy
30/08/2017

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TAB 7 - UPCOMING ISSUES AND DECISIONS

#	ISSUE	DESCRIPTION	IMPACT	NEXT STEPS / STATUS
14				
Human Resources and Corporate Services				
15				
Internal Audit				
16				

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Krohn, Martha

From: Krohn, Martha
Sent: February-28-17 8:34 AM
To: Landry, Jean
Cc: Marentette, Julie
Subject: FW: TR: Request re: Mackerel Framework meeting summary
Attachments: Summary 2017 Mackerel Framework Mtg Jan 2017.pdf; Atlantic Mackerel 101 - Feb 20 2017.pdf; Atlantic Mackerel 2017-02-20.docx

Categories: Red Category

Hi Jean,

Julie has made the requested revisions. (Last week but just getting to this now, thanks Julie!)
Please find attached briefing materials related to Atlantic Mackerel, for the information of the ADM. These have been reviewed for accuracy by the regional science staff, with new information supplied by EFM, and the longer "101" pdf has been substantially shortened and revised to reduce redundancy and ensure consistency as per your feedback a week ago Friday.

As noted in the email chain below, the ADM has previously requested additional information on Atlantic Mackerel. This information has been prepared while keeping in mind that the assessment for Atlantic Mackerel is forthcoming (March 8-9, 2017) and further updates to these materials will be prepared following that meeting.

Thanks Jean,
Martha

January-26-17 1:41 PM
To: McPherson, Arran; Chin, Melanie
Cc: Landry, Jean; Krohn, Martha
Subject: RE: TR: Request re: Mackerel Framework meeting summary

Thanks for this. I am very interested in this one and would like to be kept in the loop and am happy to receive much more detailed information than I am usually interested in. I would particularly like to learn more about the new model and how it works etc.

Trevor Swerdfager
Assistant Deputy Minister, Ecosystems and Oceans Science
Sous-ministre adjoint, Sciences des écosystèmes et des océans
Fisheries and Oceans Canada Pêches et Océans Canada
trevor.swerdfager@dfo-mpo.gc.ca
613-949-4919

From: McPherson, Arran
Sent: Thursday, January 26, 2017 1:01 PM
To: Swerdfager, Trevor <Trevor.Swerdfager@dfo-mpo.gc.ca>; Chin, Melanie <Melanie.Chin@dfo-mpo.gc.ca>
Subject: Fw: TR: Request re: Mackerel Framework meeting summary

Further to your question yesterday re Mackerel. Arran

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From: Landry, Jean
Sent: Wednesday, January 25, 2017 07:52 PM Eastern Standard Time
To: McPherson, Arran
Cc: Krohn, Martha; Marentette, Julie
Subject: TR: Request re: Mackerel Framework meeting summary

Julie and Martha: Very good and useful synthesis. I am looking forward to discuss further these outcomes with you on Friday. This is really positive outcomes compared to the last full assessment.

Arran: Below are the outcomes of the Framework assessment meeting on mackerel conducted last week. This is the first step. Second step (full assessment of the status of the stock) is scheduled for March. Julie is involved. Positive outcomes indicating clearly that we should expect a much stronger assessment approach supporting the next advice. Trevor has asked questions about mackerel today therefore I wanted to share with you this preliminary information.

I have a meeting planned with Martha and Julie on Friday to discuss these outcomes.
Jean

Jean Landry

Director , Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Jean.Landry@dfo-mpo.gc.ca / Tel: 613-993-0029

Directeur, Sciences halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Jean.Landry@dfo-mpo.gc.ca / Tél. : 613-993-0029

Government of Canada Gouvernement du Canada

Canada

De : Krohn, Martha
Envoyé : 25 janvier 2017 18:43
À : Landry, Jean <Jean.Landry@dfo-mpo.gc.ca>
Objet : Re: Request re: Mackerel Framework meeting summary

We went through these in detail and I am good with them

Sent from my BlackBerry 10 smartphone on the Rogers network.

From: Marentette, Julie
Sent: Wednesday, January 25, 2017 5:20 PM
To: Landry, Jean
Cc: Krohn, Martha
Subject: RE: Request re: Mackerel Framework meeting summary

Hello Jean,

Here are my notes from the meeting (these have not been vetted by the Region), if you would like more details.

Best regards,

Julie Marentette, Ph.D.

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Science Advisor, Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Julie.Marentette@dfo-mpo.gc.ca /Tel: 613-943-2098
Conseillère scientifique, Sciences des populations halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Julie.Marentette@dfo-mpo.gc.ca /Tél: 613-943-2098

From: Krohn, Martha
Sent: January-25-17 2:24 PM
To: Landry, Jean
Cc: Marentette, Julie
Subject: RE: Request re: Mackerel Framework meeting summary

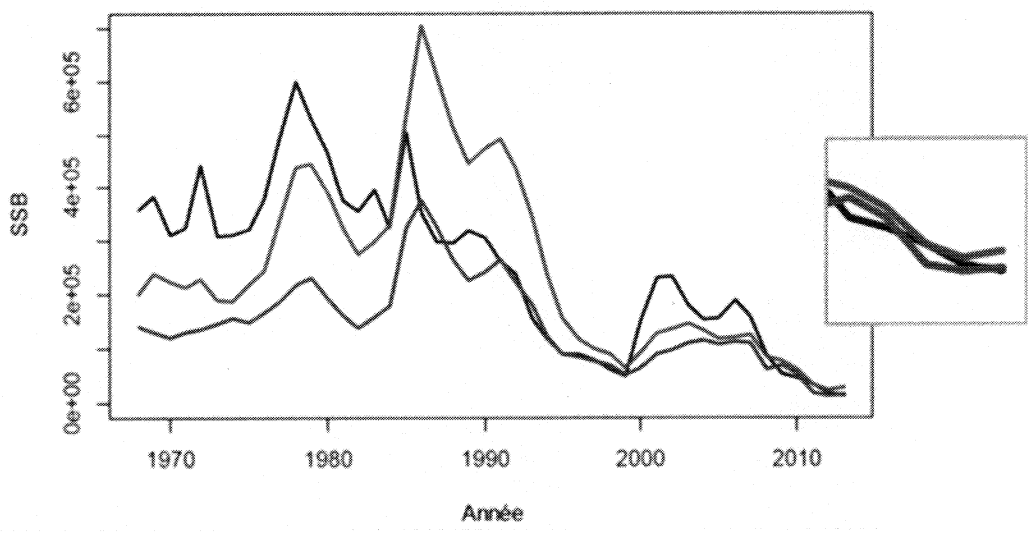
Hello Jean,
Please find below summary information from Julie from the mackerel framework.
Thanks Julie!
Martha

A more detailed piece for you will come shortly.

Context

- Last week (January 18-20 2017) there was a mackerel framework assessment at IML.
- A NOAA stock assessment biologist participated in anticipation of a joint assessment in 2019.
- A new model was accepted that has a better capacity than the previous model (from 2014 assessment) to handle the large uncertainty in catch.
- The assessment is scheduled for March 8-9, 2017.
- The current model was developed using data up to 2014 as the 2015 and 2016 survey data was not available. At the assessment, the model will incorporate those years and harvest advice will be provided for the 2017 season.
- The general pattern of the stock and status were consistent with the previous model from 2014 (the stock was at a historic low in 2014).
- In the figure below, the red line is the new model, black line is the old model, the blue line is a new model variant that does not account for undeclared catch.

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Some highlights/significant points:

- The Mackerel fishery comprises both declared (commercial) and undeclared (bycatch, discards, bait, recreational, and a proportion of American) catches. The magnitude of the undeclared landings is unknown, but is expected to be substantial, and in some regions bait and recreational fisheries may be as important as the commercial component.
- To address some of the uncertainty, a literature review and an online survey of Mackerel recreational and bait fishers in the Atlantic was conducted in 2016.
- The March 2017 assessment will use a newly developed censored Statistical Catch-at-Age (SCA) model that allows total catches to vary between a specified range of values. (The model accepted at the framework meeting last week).
- The lower catch estimate is the declared catch in any given year. The upper catch estimate is informed by the 2016 survey data. This allows the model to account for some undeclared landings.
- The censored SCA will replace the Sequential Population Analysis model used for the 2014 assessment.
- If the upper catch estimate input to the model increases, total predicted catch and total predicted Spawning Stock Biomass increases. Thus, setting an informed upper catch limit is key to presenting an accurate picture of the stock.
- It is likely that the online survey data (from fishermen) and data from literature review obtained in 2016 are still underestimating undeclared catch. Reducing uncertainty around undeclared catch is a key issue for the Mackerel stock.
- The general patterns of changes in spawning stock biomass and fishing mortality over time are similar in both models.
- Methodology for model based reference points was accepted so there will be reference points adopted at the assessment in March.

Best regards,

Julie Marentette, Ph.D.
Science Advisor, Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Julie.Marentette@dfo-mpo.gc.ca /Tel: 613-943-2098

000589

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Conseillère scientifique, Sciences des populations halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Julie.Marentette@dfo-mpo.gc.ca /Tél: 613-943-2098

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Pages 591 to / à 596

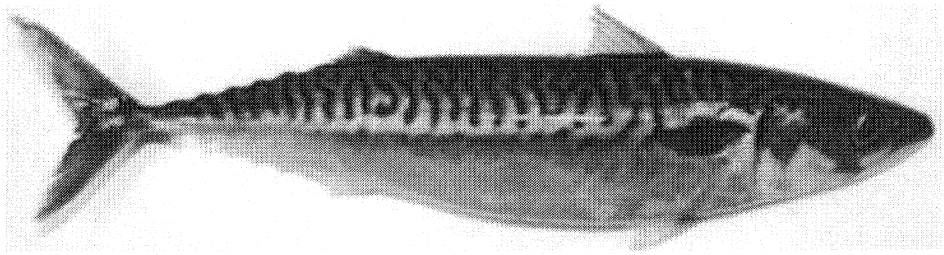
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Atlantic Mackerel (*Scomber scombrus*)



Biology

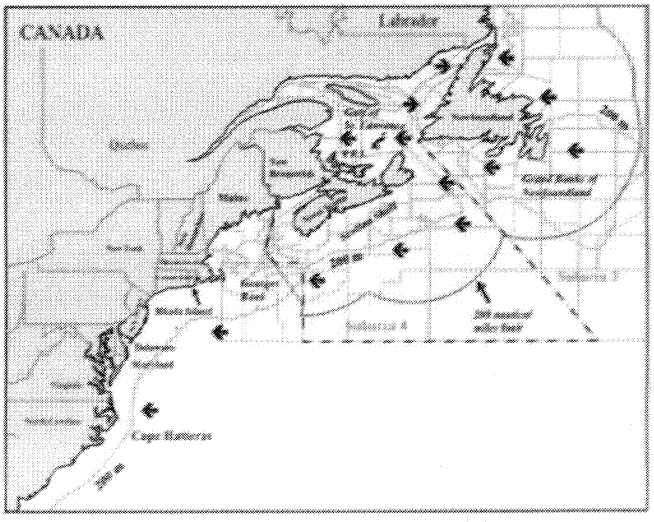
The Atlantic Mackerel is a schooling and migratory species distributed in waters north of Newfoundland down to waters off of North Carolina in the south.

Mackerel are pelagic (inhabit the upper water column), occupying depths of 70-200 m on the continental shelf in the winter.

Mackerel overwinter on the continental shelf and come inshore and to the Gulf of St. Lawrence in the spring and summer to feed and to spawn. The only important spawning area known in Canada is in the southern Gulf of St. Lawrence (NAFO Division 4T). There is also another spawning area in the US on the mid-Atlantic Bight (between Cape Cod and Cape Hatteras.

Atlantic mackerel are 100% sexually mature at ~ 30 cm, or around age 3.

Distribution of Northwest Atlantic Mackerel



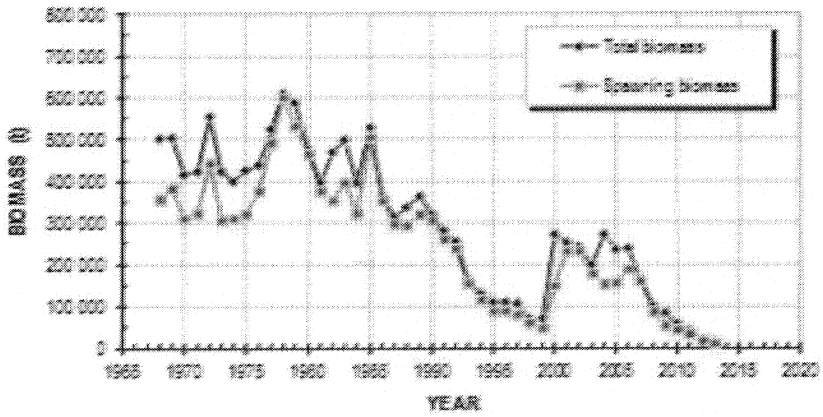
Canadian stock area (NAFO Subareas 3 & 4):
Gulf of Saint Lawrence, surrounding Newfoundland, Bay of Fundy, and Scotian shelf.

American stock area (NAFO Subareas 5 & 6):
Georges Bank, Gulf of Maine, mid-Atlantic Bight south to North Carolina

There are two contingents, one spawns in Canadian waters (in the Gulf of St. Lawrence), and one spawns in US waters (on the north east US coastal shelf). It remains to be determined if the 2 contingents form distinct stocks. It is thought that American mackerel does not migrate to Canadian waters but Canadian mackerel does migrate to US waters in the winter and is targeted by the US fishery. As a result, stock assessment in Canada concerns subareas 3-4 only while stock assessment in the US concerns the entire range, i.e., subareas 3 to 6.

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Stock status in brief



The most recent full stock assessment was performed in March 2014 (CSAS SAR 2014/030), with another planned for March 2017.

Based on the 2014 assessment, Atlantic Mackerel spawning stock biomass (SSB) has been decreasing steadily since 2006, part of a longer term decline starting around 1990.

In 2013 SSB was estimated to be in the bottom 8% or lower of the critical zone, at the lowest historical level.

Age-structure is contracting; the 6 to 12 year-old age-classes and above have been lost from the population.

Fishery

The fishery is composed of large and small purse seiners, tuck seines (modified bar seines) and other fixed gear (traps, gillnets, lines and weirs). Large seiners have been allocated 40% of the TAC with small seiners and fixed gear allocated 60% of the TAC in recent years.

Annual landed value in Canada is ~$5 million.

Historical landings for the whole stock, including those in US waters, were much higher than in recent years, reaching as high as 250 000 tonnes (t; 1970—1976). Past TACs were also high, having been set at 200 000 t between 1987 and 2000. Total American and Canadian landings are now a small fraction of those levels; for example, total recorded catches between the two countries were only 12 681 t in 2013.

Since 2000, TAC levels have been incrementally reduced. In 2012 and 2013 the TAC was 36 000 t, then reduced to 10 000 t in 2014 and again to 8 000 t in 2015-2016.

Reported Canadian landings between 2012—2015 have ranged from 4.1 to 7.4 thousand t, well below the TAC, with landings in 2015 being the lowest landings on record. However, an increase in landings was observed in 2016. The fishery was in fact closed in October 2016 as the TAC of 8 000 t was achieved (see table below).

*Table: Canadian Mackerel TAC and landings from 2000 to 2016 ('000s tonnes; * preliminary)*

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016*
TAC	100	75	75	75	75	75	75	75	75	75	40	40	36	36	10	8	8
Catch	16.0	24.4	34.7	44.7	53.8	54.6	53.6	53.0	29.7	42.2	38.8	11.4	6.5	7.4	6.4	4.1	8
% TAC caught	16	33	46	60	72	73	71	71	40	56	97	43	18	20	64	51	100

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Removals associated with the bait and recreational fisheries are not quantified and are known to be significant. Lack of information on these sources of catch is seen as one of the key uncertainties in assessing and managing the stock.

The minimum legal catch size is 26.3 cm and discarding of under-sized fish has been identified by Science as a concern. The extent and impact of these discards on the stock is hard to quantify.

The MSC certification of the Bay of Fundy, Scotian Shelf and Southern Gulf of St. Lawrence lobster fisheries requires a strategy to ensure that the mackerel bait fishery does not hinder the recovery and rebuilding of the Canadian mackerel stock.

Monitoring and assessment

Annual egg surveys in the southern Gulf of St. Lawrence are used for generating the abundance index. The abundance index from the egg survey, along with catch-at-age data from commercial samples, is used in the assessment model.

A the request of industry, the Province of Newfoundland committed funding towards a new egg survey in Area 3K (northeast coast of NL) in 2015 and 2016 to determine if there may be another significant spawning area for mackerel on the Canadian east coast. However, this study and a previous attempt to find additional significant spawning areas in 2009 did not show any sign of spawning activity and no new spawning areas have been discovered.

An internet survey of recreational and bait use of Mackerel by fishermen was conducted in late 2016 which, when paired with a literature review to estimate past recreational and bait use, generated an estimate of the magnitude of undeclared Mackerel landings in the Atlantic region. In January 2017, a new framework assessment model (censored statistical catch-at-age or SCA model) was developed to estimate total catch, using the internet survey and literature review to generate an upper limit on total catches and using declared landings as the lower limit. It is possible that the internet survey and literature review still underestimate total catch.

Science advice on stock status and removal rates

Advice on stock status

Although both the 2014 and newly proposed 2017 assessment models likely underestimate absolute stock size (because total catch is underestimated), there is high certainty in the declining stock trend.

The estimated SSB for the whole NW Atlantic Mackerel population including the American component is highly correlated to the SSB assessed from the Canadian assessment, indicating that the Canadian assessment (calibrated by egg densities in the Gulf) may be a good index of the SSB trend of the whole population.

In 2014, age-structure was reported as contracting - the 6 to 12 year-old age-classes and above have been lost from the population. Collapsed age structure is an indication of over-exploitation.

Limit Reference Point

At a CSAS peer review in April 2014, Quebec region proposed a number of potential limit reference points (LRP) for Atlantic Mackerel following the assessment, but no single point was adopted. Regardless of the LRP applied,

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the SSB for the stock fell deep in the critical zone. The stock was in the bottom 8% of the critical zone even for the lowest LRP proposed. There is high certainty that the stock is in the critical zone as the status is independent of the absolute values of the assessment and the relative historical trend is robust.

At the assessment framework meeting in January 2017, 40% B_{msy} was selected as the LRP, with calculations in the new framework model to be presented at the March 2017 assessment.

Model projections from 2014 assessment

The Mackerel stock was projected to decline further at current catch levels, or any TAC over 3342 t, over the two-year projection period. Although removals are low relative to historical levels, exploitation rates are high because stock levels are very low. If the TAC was set to 800 t, the stock was projected to increase from 3949 to 7000 t.

Current views from stakeholders and external context

Some industry members believe that Mackerel have moved northward and that areas around Newfoundland should be sampled for additional spawning areas.

Industry view generally is that the Mackerel stock is in better shape than it is according to the DFO stock assessment; their experience fishing is that Mackerel abundance is not as low as it is estimated to be according to the assessment.

However it must be noted that Mackerel are schooling fish and stick to a narrow temperature range and therefore can be caught in large numbers even at low abundance. Because of this high degree of local aggregation, Mackerel are easy to deplete to very low levels and high abundance cannot be inferred from high catches in localized areas.

Some industry members are of the view that Mackerel is a "cyclical species", i.e. it has unpredictable strong year classes, and therefore protection of the spawning stock is less critical. It is true that the spawner-per-recruit relationship for fish with a life history similar to Mackerel (short-lived early maturing fish) is typically weak – and that a good year-class can come from a small spawning stock biomass.

However, it must be noted that current low biomass levels are unprecedented and there is high uncertainty about how well the stock could recover from these low levels and even lower levels in the future. Also, the last few strong year classes have been quickly fished out as exploitation levels were very high, and thus did not have an opportunity to rebuild the stock.

If fishing pressure were to be reduced, recovery could be relatively quick compared to a later maturing gadoid, for instance. Restraint in the short-term could potentially materialize into a healthy productive stock in 5—10 years.

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In September 2014, Atlantic Mackerel was put on a priority list by the Marine Fishes subcommittee of COSEWIC in consideration for assessment by COSEWIC given the high rate of decline in the stock and the large discrepancy between the science advice and the TAC. As of February 2017 Mackerel is still on this list as a medium priority. The subcommittee will be tracking the status of Atlantic Mackerel to determine if it should be moved forward for assessment. If the species were to be assessed as at risk, the Department would be required to make a decision on whether or not to list the species under SARA.

International context

The Northwest Atlantic Mackerel stock overlaps with the American stock in US waters and with that come some considerations for the management of the fishery. The US fishery is prosecuted on a mixed component in the winter.

Atlantic Mackerel is currently managed by DFO in Canadian waters, and by NOAA in US waters. The US assessment includes both the Canadian and the American mackerel contingents (NAFO Subareas 3-6) because their fishery is conducted in winter at a time when Canadian mackerel is present in US waters.

At the last Canada/US joint stock assessment in 2010, there were differing views between the two countries on the stock status that were in large part due to the lack of a robust assessment model. Since then, Canada completed two stock assessments in 2012 and 2014, with a third to occur in March 2017. The next US assessment is scheduled for fall 2017 and members of DFO Science will be present on the assessment working group.

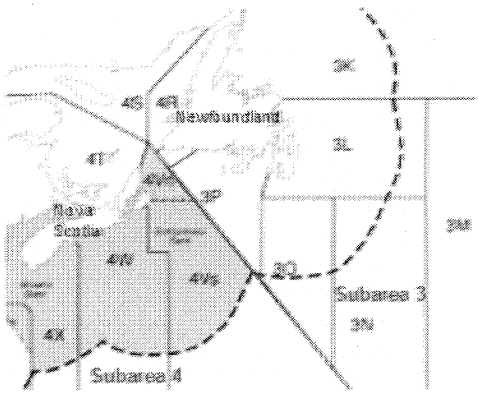
There is Canadian industry support to resume work with the US on a joint stock assessment. Collaboration on the science and management will be critical to rebuilding the depleted stock.

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Northwest Atlantic Mackerel (subareas 3, 4)



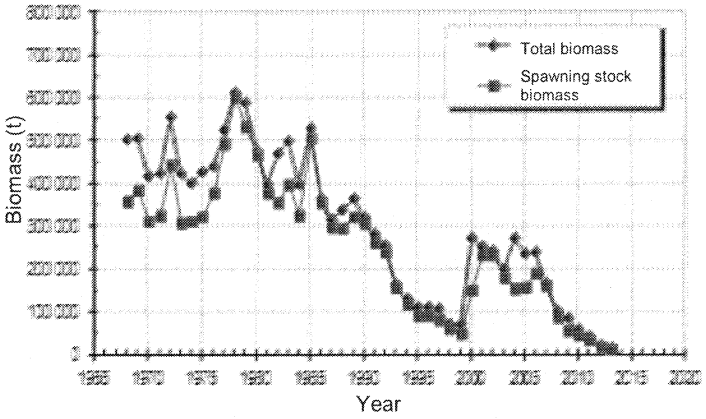
NAFO subareas 3 and 4



Precautionary Approach and Stock Status

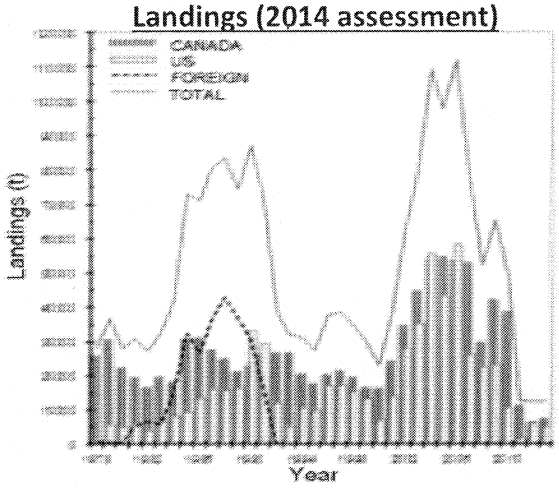
- **PA zone:** critical
- Reference Points: 40% B_{msy} to be calculated in Mar. 2017
- SSB (2013) estimated to be in bottom 8% or lower of critical zone.
- SSB is at lowest historical level.
- Age structure is contracting, an indication of overexploitation.
- On medium priority list by COSEWIC for consideration for assessment given high rate of decline in stock and discrepancy between science advice and TAC.
- Last assessment Mar. 2014, **SAR 2014/030**; next assessment Mar. 2017.

Biomass (2014 assessment)



- SSB steadily decreasing, considered to be caused by fishing mortality levels several times higher than historic sustainable levels.
- SSB calculated using an analytical assessment calibrated by the abundance index from an annual egg survey.

Landings (2014 assessment)



- **Fisheries Value:** ~$5 million
- **TAC:** 8,000 t (2016); **Landings:** Fishery closed 15 Oct. 2016 as TAC was reached
- Landings have decreased significantly and are very low relative to historic values.

Key Issues/Points

- Stock is projected to decline further at current catch levels.
- No new spawning areas have been discovered.
- DFO scientists are collaborating with US NOAA to improve assessment of the shared stock and will participate in US assessment in Nov. 2017.
- Sources of uncertainty: unrecorded catches (bait and recreational fisheries) and discards of small mackerel. However, there remains high certainty that stock is in critical zone.

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s.19(1)

Thomas, Tashina

From: Mallet, Pierre
Sent: February-28-17 1:33 PM
To: Gaudet, Mario; Thomas, Tashina; MacEachern, Leroy; Legere, Luc; Cuddy, Lori; Dwyer, Alan; Mills, Chris D; Comeau, Sandra J
Cc: LeCouffe, Marc; Quinn, Frank
Subject: FW: Atlantic Mackerel Advisory Committee / Comité consultatif du maquereau de l'Atlantique
Attachments: 2017_02_22_14_27_36.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

FYI

Maybe you already received this

Thanks

From: Browne, Ryan
Sent: February-23-17 6:11 PM
To: Assoc. des Senneurs du Golfe; Atlantic Herring Co-op ((Independent Fish Harvesters Association) ; Boudreau, Suzie; Assoc. of inshore Fishermen of Magdalen Islands; Castonguay, Martin; Cawthray, Jenness; Chandler, Alan; Regroupement des Palangriers et Petoncliers Uniques Madelinots; Regroupement des pecheurs professionnels du Sud de la Gaspesie; Corbett, Frank; Regroupement des Pecheurs Professionnels des Iles ; Cuddy, Lori; Assoc. des Pecheurs Proprietaires des Iles; Doniol-Valcroze, Thomas; Dooley, Tom; Drapeau, André; (Regroupement des pêcheurs professionnels du Sud de la Gaspésie; Dunne, Erin; Dwyer, Alan; Fillion, Diana; Gulf Nova Scotia Bonafide Fishermen's Assoc.; Gulf Nova Scotia Fishermen's Coalition; Hardy, Magalie; - Assoc. des pêcheurs polyvalents de Old Fort à Blanc-Sablon; Kerr, Helen; Kerwin, Jessica; AGHAMM; Regroupement des Pecheurs professionnels de la Haute et Moyenne Cote-Nord Inc.; - Alternate; LeCouffe, Marc; Lester, Brian; MacEwen, Dave; MacIsaac, Colin; Mallet, Pierre; Maritimes Fishermen Union; Listuguj; Micmacs of Gesgapegiag Band Council; Morin, Mathieu; Naud, Marc; New Brunswick Wildlife Federation; Niang, Aziz; ; Northumberland Fishermen's Assoc.; PEI Fishermen's Assoc.; - président RPPCI ; Quinn, Frank; Regroupement des Pêcheurs et Pêcheuses du cote des Iles; Richard, Josée; - Maritimes fishermen's Association; Innu Nation) ; Rivierre, Antoine; Ruest, Richard; Simms, Jason; Agence Mamu Innu Kaikusseht (AMIK); (Barry Group) ; The Native Council of PEI; The Netukulimkewe'l Commission; The New Brunswick Aboriginal Peoples Council; Waters, Christa; Waters, Christa;
Subject: Atlantic Mackerel Advisory Committee / Comité consultatif du maquereau de l'Atlantique

SENT ON BEHALF OF BRIAN LESTER, CHAIR, ATLANTIC MACKEREL ADVISORY COMMITTEE (AMAC)

ENVOYÉ DE LA PART DE BRIAN LESTER, PRÉSIDENT, COMITÉ CONSULTATIF DE MAQUEREAU ATLANTIQUE (CCMA)

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Thank you,
Merci,

Ryan Browne

Administrative Assistant, Resource Management
Fisheries and Oceans Canada / Government of Canada
ryan.browne@dfo-mpo.gc.ca / Tel: 613-991-1833

Adjoint Administratif, Gestion intégrée des ressources
Pêches et Océans Canada / Gouvernement du Canada
ryan.browne@dfo-mpo.gc.ca / Tél. : 613-991-1833

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Fisheries and Oceans Canada

Pêches et Océans Canada

TO: Atlantic Mackerel Advisory Committee /
AU: Comité consultatif du maquereau de l'Atlantique

Atlantic Mackerel Advisory Committee Meeting Invitation

A meeting of the Atlantic Mackerel Advisory Committee is scheduled for March 30, 2017, at the Delta Halifax, 1990 Barrington Street, Halifax, NS, in the Boardroom Baronet 123. (902-425-6700).

The meeting will begin at 09:00 and conclude at 16:00. A few rooms have been set aside for participants and will be released on March 7, 2017.

An agenda will be provided shortly.

Should you have any questions, please contact Jenness Cawthray (Jenness.Cawthray@dfo-mpo.gc.ca) (613-998-1524).

Invitation à la réunion du Comité consultatif du maquereau de l'Atlantique

Une réunion du Comité consultatif du maquereau de l'Atlantique est prévue pour le 30 mars, 2017 à l'hôtel Delta Halifax, 1990 rue Barrington, Halifax, N-E, dans la salle de conférence Baronet 123 (902-425-6700).

La réunion commencera à 09h00 et se terminera à 16h00. Quelques chambres ont été réservées pour les participants. Vous devez faire vos réservations d'ici au 7 mars pour en profiter du bloc.

Un ordre du jour sera bientôt disponible.

Si vous avez des questions, veuillez contacter Jenness Cawthray (Jenness.Cawthray@dfo-mpo.gc.ca) (613-998-1524).

Brian Lester
Chair/Président
Atlantic Mackerel Advisory Committee/Comité consultatif du maquereau de l'Atlantique

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s.19(1)

Waters, Christa

From: Doniol-Valcroze, Thomas
Sent: February-28-17 12:12 PM
To: Waters, Christa
Cc: Castonguay, Martin
Subject: RE: Maritimes Mackerel AC meeting

Hi Christa,

Yes, I'll be happy to give a short presentation by phone on the results of the RAP. March 23 at 1 pm works for me. And Martin will join us too. I'll send a pdf with the presentation ahead of time.

See you next week !

Thomas

De : Waters, Christa
Envoyé : 28 février 2017 10:06
À : Doniol-Valcroze, Thomas
Cc : Castonguay, Martin
Objet : Maritimes Mackerel AC meeting

Hello Tomas,

In one of my last emails I mentioned that we are having a Regional Mackerel Advisory Committee before the AMAC. Is there any way that you would be able to call in and give a brief summary of the results of the RAP? The meeting is scheduled on March 23 from 1-4 pm. I would schedule you for the first presentation so you would not have to stay on the line (10-15 mins plus questions?).

If it is not possible to call in, is there anyone that could? If not, is there a possibility to provide a PowerPoint with 5-10 slides with the results that we could provide for their information? This is not the ideal situation as it leaves them to interpret the data on their own. If none of these are possible, I will only be able to give them 2-3 highlight points of the RAP. If that is what we have to do, then we will.

Hope all is going well with you and your prep for next week.

Respectfully,
Christa

Christa Waters
Regional Senior Fisheries Management Advisor
Resource Management | Gestion des Pêches
Maritimes Region | Région des Maritimes
Fisheries and Oceans Canada | Pêches et Océans Canada
P.O. Box 1006 | C.P. 1006
Dartmouth, NS Canada B2Y 4A2 | Dartmouth, NÉ Canada B2Y 4A2

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Christa.Waters@dfo-mpo.gc.ca
Telephone | Téléphone 902-293-6541
Government of Canada | Gouvernement du Canada

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s.19(1)

Waters, Christa

From: Waters, Christa
Sent: February-28-17 10:41 AM
To: Surette, Dwayne E; Penny, Lorne (Lorne.Penny@dfo-mpo.gc.ca); Cheney, Sarah
Subject: FW: March 23, 2017 - Maritime Atlantic Mackerel Advisory Committee (MARMAC)

Forgot you folks. I am sorry about that.

Christa Waters
Regional Senior Fisheries Management Advisor
Resource Management | Gestion des Pêches
Maritimes Region | Région des Maritimes
Telephone | Téléphone 902-293-6541

From: Waters, Christa
Sent: February 27, 2017 3:54 PM
To: Atlantic Herring Co-op / Full Bay Scallop; Aurelie Cosandey-Godin ; Fort Folly FN; Ginny Boudreau (gcifa@gcifa.ns.ca); glooscapfirstnation; North of Smokey; Singh, Rabindra;
Cc: Bieren, Stacey; Sperry, Chris; Singh, Rabindra
Subject: March 23, 2017 - Maritime Atlantic Mackerel Advisory Committee (MARMAC)

Hello,

The Atlantic Mackerel Advisory Committee will be held at the end of March. In order to ensure that the Maritimes Region Mackerel industry is well positioned in that meeting we will need to hold a Regional meeting before this.

The stock assessment will take place in Mont Joli Quebec March 8 and 9th and the following week is March break and I suspect many people will be vacationing. That leaves us the week of March 20-24 for the Regional Mackerel meeting. I would like to schedule the MARMAC meeting for Thursday, March 23, 2016 from 1pm-4pm. I will try to get the Science lead to call in and give the results of the stock assessment.

If you have any specific agenda items, please send them my way as soon as possible and no later than March 10, 2017. I will send out an agenda after that. Please also indicate if you would like to participate by phone and /or WebEx.

I look forward to seeing some familiar faces and meeting those of you I have not worked with before.

Respectfully,

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Christa

Christa Waters
Regional Senior Fisheries Management Advisor
Resource Management | Gestion des Pêches
Maritimes Region | Région des Maritimes
Fisheries and Oceans Canada | Pêches et Océans Canada
P.O. Box 1006 | C.P. 1006
Dartmouth, NS Canada B2Y 4A2 | Dartmouth, NÉ Canada B2Y 4A2
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Government of Canada | Gouvernement du Canada

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s.19(1)

Waters, Christa

From: Waters, Christa
Sent: March-28-17 6:27 AM
To: Wentzell, Doug
Cc: Lester, Brian
Subject: RE: Advisory Committee Meeting - Mackerel - This Friday?

Hey Doug,
He is on my distribution list for the regional meeting. NHQ sent out an email about committee membership and seats at the table. This was also forwarded to him. He is more than welcome to come and if he asks for a seat at the table he would likely get one.
Christa

From: Wentzell, Doug
Sent: Monday, March 27, 2017 6:16 PM
To: Waters, Christa
Subject: FW: Advisory Committee Meeting - Mackerel - This Friday?

Hi Christa,

Can you please advise on the following.

Many Thanks,
Doug

Doug Wentzell
Regional Director, Fisheries Management
Fisheries and Oceans Canada | Government of Canada
Doug.Wentzell@dfo-mpo.gc.ca | Telephone: 902-426-9962 | Facsimile: 902-426-7967

Directeur régional, Gestion des pêches
Pêches et Océans Canada | Gouvernement du Canada
Doug.Wentzell@dfo-mpo.gc.ca | Téléphone: 902-426-9962 | Télécopieur: 902-426-7967

From: Rossignol, Pauline
Sent: Monday, March 27, 2017 5:45 PM
To: Wentzell, Doug <Doug.Wentzell@dfo-mpo.gc.ca>
Cc: Berthier, Jacinta <Jacinta.Berthier@dfo-mpo.gc.ca>
Subject: FW: Advisory Committee Meeting - Mackerel - This Friday?

Hi Doug, as per below, is there a Mackerel Advisory Committee meeting this week? If so, was [redacted] nvited as an observer? Thanks

Pauline

From: Trudeau, Miriam
Sent: March-27-17 5:05 PM
To: Rossignol, Pauline
Subject: Advisory Committee Meeting - Mackerel - This Friday?

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s.19(1)

Salut Pauline,

Is there an Advisory Committee Meeting on Mackerel this Friday in Halifax? If so, do you know if [redacted] has been invited as an observer? He was told by DFO that he was always welcome to attend as an observer.

If it is the case, is it possible to have the location and time?

Miriam

Sent from my BlackBerry 10 smartphone on the Rogers network.

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Patterson, Pauline

De: Cawthray, Jenness
Envoyé: March-01-17 12:40 PM
À: Dunne, Erin; Waters, Christa; Mallet, Pierre; Rivierre, Antoine
Objet: FW: Aboriginal Consultation for AMAC
Pièces jointes: Atlantic Mackerel Advisory Committee Members - 2016

Importance: Haute

Hi Folks!
I am still looking for this list of aboriginal groups from some of you.
Could you please make it a priority? I know everyone is busy! Given AMAC is this month we will have to proceed quickly if we are setting up a separate consultation.
Thanks!
Jenness

From: Cawthray, Jenness
Sent: February-27-17 11:56 AM
To: Waters, Christa; Mallet, Pierre; Dunne, Erin; Rivierre, Antoine
Subject: Aboriginal Consultation for AMAC
Importance: High

Hi Folks,
We are exploring holding a separate consultation with aboriginal groups the afternoon before ASAC. Can you please provide me with a list of contacts by Region that should be included. We should already have these groups in the attached list for the AMAC invitation.

Please provide by Wednesday the list of Aboriginal Groups that should attend this meeting by Region. Following this, we will send out a separate invitation to gauge interest in attending an AMAC meeting on the 29th.

Thank you,
Jenness

From: Browne, Ryan
Sent: February-27-17 11:49 AM
To: Cawthray, Jenness
Subject: RE: AMAC list

From: Cawthray, Jenness
Sent: February-27-17 11:20 AM
To: Browne, Ryan
Subject: AMAC list

Can you send me the latest and greatest list??
Thanks!

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Jenness Cawthray
Senior Fisheries and Aquaculture Management Officer | Agent principal, Gestion des pêches et de l'aquaculture
Fisheries and Oceans | Pêches et océans
200 rue Kent Street - 13S013 Ottawa, ON, K1A 0E6
Jenness.Cawthray@dfo-mpo.gc.ca
Telephone | Téléphone (613) 998-1524
Facsimile | Télécopieur (613) 990-7051
Government of Canada | Gouvernement du Canada

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Patterson, Pauline

Nom du groupe de contacts:

Atlantic Mackerel Advisory Committee Members - 2016

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s.19(1)

Membres:

Assoc. des Senneurs du Golfe
Atlantic Herring Co-op
aherring@eastlink.ca
(Independent Fish Harvesters Association)
Benchabane, Samir
Samir.Benchabane@mapaq.gouv.qc.ca
Boudreau, Ginny
gcifa@gcifa.ns.ca
Boudreau, Suzie
Suzie.Boudreau@dfo-mpo.gc.ca
Inshore
Assoc. of inshore Fishermen of Magdalen Islands
inshorefishermen@hotmail.com
Castonguay, Martin
Martin.Castonguay@dfo-mpo.gc.ca
Cawthray, Jenness
cawthrayj.Cawthray@dfo-mpo.gc.ca
Chandler, Alan
chandlea@gov.ns.ca
- Regroupement des Palangriers et Petoncliers Uniques Madelinots
rppum@tlb.sympatico.ca
- Regroupement des pecheurs professionnels du Sud de la Gaspesie
rppsg@globetrotter.net
Corbett, Frank (Nfld-Policy)
Frank.Corbett@dfo-mpo.gc.ca
- Regroupement des Pecheurs Professionnels des Iles
rppim@tlb.sympatico.ca
Cronk, Ronald
Ronald.CRONK@gnb.ca
Cuddy, Lori
Lori.Cuddy@dfo-mpo.gc.ca
capebreeze@ns.aliantzinc.ca
Assoc. des Pecheurs Proprietaires des Iles
appim@tlb.sympatico.ca
Desrosiers, Denis
Denis.Desrosiers@mapaq.gouv.qc.ca
Doniol-Valcroze, Thomas
Thomas.Doniol-Valcroze@dfo-mpo.gc.ca
Dooley, Tom
tdooley@gov.nf.ca
monksheadfisheries@gmail.com

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s.19(1)

Drapeau, André	Andre.Drapeau@dfo-mpo.gc.ca
[redacted]- (Regroupement des pêcheurs professionnels du Sud de la Gaspésie	[redacted]
Dunne, Erin	Erin.Dunne@dfo-mpo.gc.ca
Dwyer, Alan	Alan.Dwyer@dfo-mpo.gc.ca
Ferguson, Louis (DAAF/MAAP)	Louis.Ferguson@gnb.ca
Fillion, Diana	Diana.Fillion@dfo-mpo.gc.ca
[redacted]	[redacted]
Gulf Nova Scotia Bonafide Fishermen's Assoc.	gulfbonafide@gmail.com
Gulf Nova Scotia Fishermen's Coalition	[redacted]
Hardy, Magalie	Magalie.Hardy@dfo-mpo.gc.ca
Inverness South Fishermen's Association	[redacted]
Inverness South Fishermen's Association	invernesssouth@outlook.com
[redacted]	micmac@globetrotter.net
[redacted] Assoc. des pêcheurs polyvalents de Old Fort à Blanc-Sablon	Marc.johnston@gnb.ca
Kerr, Helen	Helen.Kerr@dfo-mpo.gc.ca
Kerwin, Jessica	Jessica.Kerwin@dfo-mpo.gc.ca
[redacted]	[redacted]
[redacted] Regroupement des Pecheurs professionnels de la Haute et Moyenne Cote-Nord Inc.	rpphmcn@globetrotter.net
[redacted] Alternate	[redacted]
LeCouffe, Marc	Marc.LeCouffe@dfo-mpo.gc.ca
Lester, Brian (HQ)	Brian.Lester@dfo-mpo.gc.ca
[redacted]	[redacted]
MacEwen, Dave	dgmacewen@gov.pe.ca
[redacted]	office@peispa.com
MacIsaac, Colin	Colin.MacIsaac@dfo-mpo.gc.ca
Mallet, Pierre	Pierre.Mallet@dfo-mpo.gc.ca
Maritime Fishermen's Union (Local 4)	[redacted]
Maritimes Fishermen Union	shediac@mfu-upm.com
[redacted]	[redacted]
[redacted]- Listuguj	[redacted]
Micmacs of Gesgapegiag Band Council	
Millbrook First Nation	[redacted]
Morin, Mathieu	Mathieu.Morin@dfo-mpo.gc.ca
Morisset, Jean	Jean.Morisset@dfo-mpo.gc.ca
[redacted]	gmfa@nb.aibn.com
Naud, Marc	Marc.Naud@dfo-mpo.gc.ca
New Brunswick Wildlife Federation	[redacted]
Niang, Aziz	Aziz.niang@mapaq.gouv.qc.ca

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[redacted] RPPCI

Northumberland Fishermen's Assoc.
Paq'tnkek Mi'kmaw Nation
[redacted]
PEI Fishermen's Assoc. managerpeifa@pei.eastlink.ca
[redacted]
Pictou Landing First Nation

[redacted] RPPCI
Quinn, Frank Frank.Quinn@dfo-mpo.gc.ca
Regroupement des Pêcheurs et Pêcheuses du cote des Iles
rppci@tlb.sympatico.ca
Richard, Josée Josee.Richard@dfo-mpo.gc.ca
[redacted] - Maritimes fishermen's Association
[redacted]
[redacted] (Grand Chief - Innu Nation)

Rivierre, Antoine Antoine.Rivierre@dfo-mpo.gc.ca
Ruest, Richard Richard.Ruest@dfo-mpo.gc.ca
[redacted]
Simms, Jason Jason.Simms@dfo-mpo.gc.ca
[redacted]
[redacted] Agence Mamu Innu Kaikusseht (AMIK)

[redacted] Barry Group)
president@ffaw.net
The Native Council of PEI
The Netukulimkewe'l Commission netcomm@ncnsnetcomm.ns.ca
The New Brunswick Aboriginal Peoples Council

Wagmatcook First Nation
Waters, Christa Christa.Waters@dfo-mpo.gc.ca
Waters, Christa (MAR) Christa.Waters@dfo-mpo.gc.ca
Waycobah First Nation

[redacted]
[redacted]

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Patterson, Pauline

De: Cawthray, Jenness
Envoyé: March-01-17 12:32 PM
À: Rivierre, Antoine
Objet: FW: Mackerel landings 2014 and 2015
Pièces jointes: DÉbarquements maquereau - 2014 et 2015 - Région du Québec.pdf

Importance: Haute

Hi Antoine,
Can you send me your most recent update on Mackerel landings as soon as possible.
Thank you,
Jenness

From: Lester, Brian
Sent: February-28-17 9:53 AM
To: Cawthray, Jenness
Subject: FW: Mackerel landings 2014 and 2015

From: Rivierre, Antoine
Sent: 2016–December-15 9:13 AM
To: Lester, Brian
Cc: Mallet, Pierre; Hussey-Bondt, Laura; Kerwin, Jessica; Drapeau, André
Subject: TR: Mackerel landings 2014 and 2015

Bonjour monsieur Lester
Comme demandé, vous trouverez en pièce jointe les débarquements de maquereau pour le Québec en 2014 et 2015.

Merci

Antoine Rivierre

Agent régional, Gestion de la ressource et de l'aquaculture
Pêches et Océans Canada / Gouvernement du Canada
Antoine.rivierre@dfo-mpo.gc.ca / Tél. : 418.640.2636

Regional agent, Resource management and Aquaculture
Fisheries and Oceans Canada / Government of Canada
Antoine.Rivierre@dfo-mpo.gc.ca / Tel: 418.640.2636

Government of Canada Gouvernement du Canada

Canada

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s.21(1)(b)

De : Leblanc, Valérie
Envoyé : December-15-16 9:08 AM
À : Rivierre, Antoine
Objet : TR: Mackerel landings 2014 and 2015

Bonjour Antoine,

Voici les débarquements de maquereau au Québec pour 2014 et 2015.

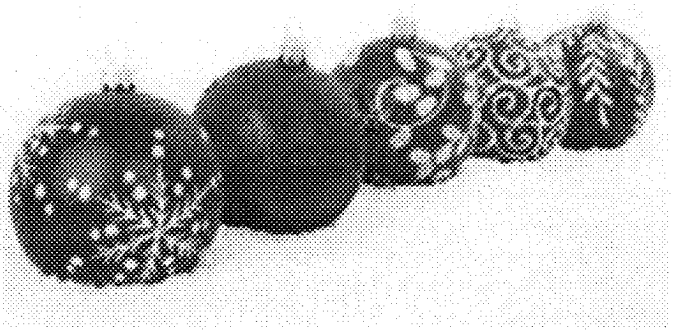
Bonne journée!

Valérie Leblanc

Coordonnatrice statistique int., Division de la statistique et des permis
Pêches et Océans Canada – Région du Québec
104, rue Dalhousie, 3ème étage, Québec, QC G1K 7Y7
valerie.leblanc@dfo-mpo.gc.ca / Téléphone: 418.648.2481 / Télécopieur: 418.648.7981

Act. Statistical Coordinator, Statistics and Licensing Division
Fisheries and Oceans Canada – Quebec Region
104, Dalhousie street, 3rd floor, Quebec, QC G1K 7Y7
valerie.leblanc@dfo-mpo.gc.ca / Tel.: 418.648.2481 / Fax: 418.648.7981

JOYEUSES FÊTES!



De : Drapeau, André
Envoyé : 14 décembre 2016 08:35
À : Leblanc, Valérie
Cc : Rivierre, Antoine
Objet : TR: Mackerel landings 2014 and 2015

Salut Valérie,

Voici une demande de débarquement de l'Administration centrale [redacted]

Est-ce que tu pourrais acheminer le tableau à Antoine svp qui le fera suivre à Brian Lester.

Merci bcp
AD

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De : Lester, Brian
Envoyé : 14 décembre 2016 08:24
À : Mallet, Pierre; Hussey-Bondt, Laura; Kerwin, Jessica; Drapeau, André
Objet : Mackerel landings 2014 and 2015

Can you please provide me with the landings for your region for 2014 and 15 split <65' and if any >65'.

Today if possible. I have numbers but not sure if they were finals for each of the last two years.

Thanks
Brian

Sent from my BlackBerry 10 smartphone on the Rogers network.

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Pêches et Océans Canada | Fisheries and Oceans Canada

PROTÉGÉ PRÉLIMINAIRE

Région du Québec

PEC022 - Rapport d'extraction des pêches

PÉRIODE

DATE DE DÉBARQUEMENT ENTRE 2014-01-01 ET 2015-12-31

PARAMÈTRE(S) DE SÉLECTION

BATEAU(X) DU PERMIS	: Tous
LONGUEUR BATEAU(X) DU PERMIS	: Tous
NIP(S) INTERVENANT(S)	: Tous
CODE(S) COMMUNAUTÉ(S) DE RÉSIDENCE(S)	: Tous
CODE(S) SOUS-SECTEUR(S) DE RÉSIDENCE(S)	: Tous
CODE(S) SECTEUR(S) DE RÉSIDENCE(S)	: Tous
CODE(S) SECTEUR(S) ADM. PERMIS	: Tous
ACHETEUR(S)	: Tous
CODE(S) COMMUNAUTÉ(S) ACHETEUR(S)	: Tous
CODE(S) ESPÈCE(S) CAPTURÉE(S)	: 250
CODE(S) ESPÈCE(S) VISÉE(S) OU PLUS DÉBARQUÉE(S)	: Tous
CODE(S) ESPÈCE(S) PRINCIPALE(S) DÉBARQUÉE(S)	: Tous
CODE(S) ESPÈCE(S) VISÉE(S)	: Tous
CODE(S) ENGIN(S)	: Tous
CODE(S) COMMUNAUTÉ(S) DE DÉBARQUEMENT(S)	: Tous
CLASSE(S) PERMIS	: Tous
NUMÉRO(S) PERMIS	: Tous
NUMÉRO(S) GROUPE(S) CONTINGENT(S)	: Tous
ZONE(S) OPANO	: Tous
ZONE(S) DE GESTION	: Tous
CODE(S) QUADRILATÈRE(S)	: Tous

OPTION(S) DU RAPPORT

UNITÉ DE MESURE EN KILOGRAMME
PÊCHE NON-COMMERCIALE (RAS) EXCLUE
CONSOMMATIONS PERSONNELLES ET REJETS AU DÉBARQUEMENT INCLUS

Date d'exécution : 2016-12-15 09:06

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Pêches et Océans Canada | Fisheries and Oceans Canada

PROTÉGÉ PRÉLIMINAIRE

Région du Québec

PEC022 - Rapport d'extraction des pêches

ANNÉE	CODE ESPÈCE	ESPÈCE	QUANTITÉ (KG)
2014	250	Maquereau	1 367 392
2015	250	Maquereau	1 045 255
			2 412 648

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s.19(1)

Cormier, Mélanie

De: Larochelle, Mia
Envoyé: 1 mars 2017 09:03
À: Rivierre, Antoine
Cc: Larochelle, Mia
Objet: RE: Aboriginal Consultation for AMAC

Salut Antoine,

Voici les modifications à apporter à la liste.

Remplacer :

[redacted]

Ajouter :

[redacted]

Mia.Larochelle@dfo-mpo.gc.ca

Mauvaise adresse :

[redacted]

Plusieurs Nations d'autres régions sont aussi invitées. Je ne suis malheureusement pas en mesure de confirmer leurs coordonnées.

N'hésite pas si je peux faire autre chose...

Mia

De : Rivierre, Antoine
Envoyé : 27 février 2017 16:31
À : Larochelle, Mia; Croussette, Yolaine
Objet : TR: Aboriginal Consultation for AMAC
Importance : Haute

Bonjour Yolaine et Mia,
Est-ce possible de valider la liste de distribution jointe et de valider si les représentants autochtones dans vos régions qui pourraient être intéressés par la consultation concernant le maquereau sont présents ?

Si vous avez les noms et les coordonnées des principaux contacts absents de cette liste, pouvez-vous me les faire suivre pour qu'ils puissent recevoir une convocation officielle ?

Merci d'avance pour votre collaboration et votre aide sur ce dossier.

Cordialement

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Antoine

De : Cawthray, Jenness
Envoyé : February-27-17 11:56 AM
À : Waters, Christa; Mallet, Pierre; Dunne, Erin; Rivierre, Antoine
Objet : Aboriginal Consultation for AMAC
Importance : Haute

Hi Folks,
We are exploring holding a separate consultation with aboriginal groups the afternoon before ASAC. Can you please provide me with a list of contacts by Region that should be included. We should already have these groups in the attached list for the AMAC invitation.

Please provide by Wednesday the list of Aboriginal Groups that should attend this meeting by Region. Following this, we will send out a separate invitation to gauge interest in attending an AMAC meeting on the 29th.

Thank you,
Jenness

From: Browne, Ryan
Sent: February-27-17 11:49 AM
To: Cawthray, Jenness
Subject: RE: AMAC list

From: Cawthray, Jenness
Sent: February-27-17 11:20 AM
To: Browne, Ryan
Subject: AMAC list

Can you send me the latest and greatest list??
Thanks!

Jenness Cawthray
Senior Fisheries and Aquaculture Management Officer |
Agent principal, Gestion des pêches et de l'aquaculture
Fisheries and Oceans | Pêches et océans
200 rue Kent Street - 13S013 Ottawa, ON, K1A 0E6
Jenness.Cawthray@dfo-mpo.gc.ca
Telephone | Téléphone (613) 998-1524
Facsimile | Télécopieur (613) 990-7051
Government of Canada | Gouvernement du Canada

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Cormier, Mélanie

De: Cawthray, Jenness
Envoyé: 1 mars 2017 13:37
À: Rivierre, Antoine
Objet: RE: Mackerel landings 2014 and 2015

No, have it on my list tough! I will try to have one in the next day or two and send to the Regions for comments.
Thanks!
Jenness

From: Rivierre, Antoine
Sent: March-01-17 1:35 PM
To: Cawthray, Jenness
Subject: RE: Mackerel landings 2014 and 2015

You are welcome !

By the way is the proposed agenda for AMAC is already ready ?
The provincial government asked me for it this morning ? ☺

Thank you !

Antoine

De : Cawthray, Jenness
Envoyé : March-01-17 1:27 PM
À : Rivierre, Antoine
Objet : RE: Mackerel landings 2014 and 2015

Thank you!

From: Rivierre, Antoine
Sent: March-01-17 1:20 PM
To: Cawthray, Jenness
Subject: RE: Mackerel landings 2014 and 2015

Bonjour Jenness
Voici la mise à jour du rapport au 1er mars

- 2014 : 1 367 392 kg
- 2015 : 1 045 255 kg

Les chiffres n'ont pas changé !

Antoine

De : Cawthray, Jenness
Envoyé : March-01-17 12:32 PM
À : Rivierre, Antoine

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Objet : FW: Mackerel landings 2014 and 2015
Importance : Haute

Hi Antoine,
Can you send me your most recent update on Mackerel landings as soon as possible.
Thank you,
Jenness

From: Lester, Brian
Sent: February-28-17 9:53 AM
To: Cawthray, Jenness
Subject: FW: Mackerel landings 2014 and 2015

From: Rivierre, Antoine
Sent: 2016–December-15 9:13 AM
To: Lester, Brian
Cc: Mallet, Pierre; Hussey-Bondt, Laura; Kerwin, Jessica; Drapeau, André
Subject: TR: Mackerel landings 2014 and 2015

Bonjour monsieur Lester
Comme demandé, vous trouverez en pièce jointe les débarquements de maquereau pour le Québec en 2014 et 2015.

Merci

Antoine Rivierre

Agent régional, Gestion de la ressource et de l'aquaculture
Pêches et Océans Canada / Gouvernement du Canada
Antoine.rivierre@dfo-mpo.gc.ca / Tél. : 418.640.2636

Regional agent, Resource management and Aquaculture
Fisheries and Oceans Canada / Government of Canada
Antoine Rivierre@dfo-mpo.gc.ca / Tel: 418.640.2636

Government of Canada Gouvernement du Canada

Canada

De : Leblanc, Valérie
Envoyé : December-15-16 9:08 AM
À : Rivierre, Antoine
Objet : TR: Mackerel landings 2014 and 2015

Bonjour Antoine,

Voici les débarquements de maquereau au Québec pour 2014 et 2015.

Bonne journée!

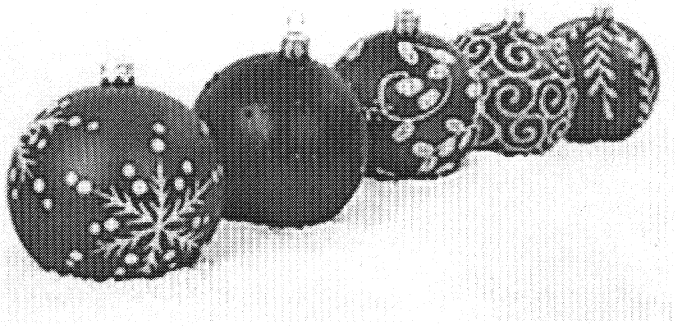
Document Released Under the Access to Information Act / Document divulgué en vertu de la Loi sur l'accès à l'information.

Valérie Leblanc

Coordonnatrice statistique int., Division de la statistique et des permis
Pêches et Océans Canada – Région du Québec
104, rue Dalhousie, 3ème étage, Québec, QC G1K 7Y7
valerie.leblanc@dfo-mpo.gc.ca / Téléphone: 418.648.2481 / Télécopieur: 418.648.7981

Act. Statistical Coordinator, Statistics and Licensing Division
Fisheries and Oceans Canada – Quebec Region
104, Dalhousie street, 3rd floor, Quebec, QC G1K 7Y7
valerie.leblanc@dfo-mpo.gc.ca / Tel.: 418.648.2481 / Fax: 418.648.7981

JOYEUSES FÊTES!



De : Drapeau, André
Envoyé : 14 décembre 2016 08:35
À : Leblanc, Valérie
Cc : Rivierre, Antoine
Objet : TR: Mackerel landings 2014 and 2015

Salut Valérie,

Voici une demande de débarquement de l'Administration centrale [redacted]

Est-ce que tu pourrais acheminer le tableau à Antoine svp qui le fera suivre à Brian Lester.

Merci bcp
AD

De : Lester, Brian
Envoyé : 14 décembre 2016 08:24
À : Mallet, Pierre; Hussey-Bondt, Laura; Kerwin, Jessica; Drapeau, André
Objet : Mackerel landings 2014 and 2015

Can you please provide me with the landings for your region for 2014 and 15 split <65' and if any >65'.

Today if possible. I have numbers but not sure if they were finals for each of the last two years.

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s.19(1)

Cormier, Mélanie

De: Richard, Josée
Envoyé: 1 mars 2017 11:53
À: Rivierre, Antoine
Objet: RE: Odre du jour Maquereau

418-380-2100 poste 3372

Désolée, c'est mon erreur.

De : Rivierre, Antoine
Envoyé : 1 mars 2017 12:52
À : Richard, Josée
Objet : RE: Odre du jour Maquereau

Le numéro ne marche pas !

De : Richard, Josée
Envoyé : March-01-17 11:49 AM
À : Rivierre, Antoine
Cc : Vigneau, Annie
Objet : Odre du jour Maquereau

Bonjour Antoine,

Dario, [redacted] a reçu un appel de Olivier Paquet du MAPAQ concernant l'ordre du jour du comité consultatif du maquereau qui est prévu à Halifax le 30 mars prochain.

En ton rôle de conseiller régional, peux-tu SVP contacter monsieur Paquet afin de lui donner les informations ? Son numéro est le 418-360-2100 poste 3372.

Merci à l'avance,

Josée Richard
Gestionnaire de la ressource | Resource manager
Secteur des Iles-de-la-Madeleine | Magdalen Islands Area
Pêches et Océans Canada | Fisheries and Oceans Canada
235, chemin Principal, porte 206
Cap-aux-Meules QC G4T 1R7
josee.richard@dfo-mpo.gc.ca
Téléphone | Telephone (418) 986-2390, poste 214 | ext. 214
Télécopieur | Facsimile (418) 986-5353
Gouvernement du Canada | Government of Canada

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Waters, Christa

From: Waters, Christa
Sent: March-01-17 2:40 PM
To: Cawthray, Jenness
Subject: RE: Mackerel landings 2014 and 2015

Hello Jenness,
OK, this should be better. Sorry for the confusion.
Christa

Fleet	landings kg	MT
Commercial Mackerel	930255.068	930.26
Bait	144313.597	144.31
Purse seine directed	88000.02	88.00
Weir (could be directed commercial or bycatch)	29767.194	29.77
bycatch herring	1995.827	2.00
bycatch groundfish	4302.534	4.30
Total	1198634.24	1198.63

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Cormier, Mélanie

De: Cawthray, Jenness
Envoyé: 2 mars 2017 10:10
À: Mallet, Pierre; Rivierre, Antoine; Waters, Christa; Dunne, Erin
Objet: Meeting Thursday evening March 30th?

Hi Everyone,

Can we meet Thursday evening to discuss some upcoming issue for this file? Are you all staying until Friday?
I will be sending out a short list of items for discussion later today (hopefully)
Brian will be attending the meeting on Thursday; however, will be unable to attend on Wednesday as he is testifying in Corner Brook.
Let me know your plans!

Jenness Cawthray
Senior Fisheries and Aquaculture Management Officer |
Agent principal, Gestion des pêches et de l'aquaculture
Fisheries and Oceans | Pêches et océans
200 rue Kent Street - 13S013 Ottawa, ON, K1A 0E6
Jenness.Cawthray@dfo-mpo.gc.ca
Telephone | Téléphone (613) 998-1524
Facsimile | Télécopieur (613) 990-7051
Government of Canada | Gouvernement du Canada

Document Released Under the Access to Information Act / Document divulgué en vertu de la Loi sur l'accès à l'information.

Cormier, Mélanie

De: Croussette, Yolaine
Envoyé: 2 mars 2017 07:34
À: Rivierre, Antoine
Objet: RE: Aboriginal Consultation for AMAC
Pièces jointes: Liste désignation des bandes autochtones CN

Bon matin Antoine,

Je te transmets la liste des coordonnateurs des pêches de la CN ainsi que le gestionnaire des pêches de l'Amik. Notre façon de faire ici, en ce qui concerne les comités, est de les inviter à la table au même titre que des représentants de pêcheurs (à peu près au même titre qu'ils représentent les membres de leur communauté).

Bonne journée et au plaisir,

Yolaine Croussette

De : Rivierre, Antoine
Envoyé : 27 février 2017 16:31
À : Larochelle, Mia; Croussette, Yolaine
Objet : TR: Aboriginal Consultation for AMAC
Importance : Haute

Bonjour Yolaine et Mia,
Est-ce possible de valider la liste de distribution jointe et de valider si les représentants autochtones dans vos régions qui pourraient être intéressés par la consultation concernant le maquereau sont présents ?

Si vous avez les noms et les coordonnées des principaux contacts absents de cette liste, pouvez-vous me les faire suivre pour qu'ils puissent recevoir une convocation officielle ?

Merci d'avance pour votre collaboration et votre aide sur ce dossier.

Cordialement

Antoine

De : Cawthray, Jenness
Envoyé : February-27-17 11:56 AM
À : Waters, Christa; Mallet, Pierre; Dunne, Erin; Rivierre, Antoine
Objet : Aboriginal Consultation for AMAC
Importance : Haute

Hi Folks,
We are exploring holding a separate consultation with aboriginal groups the afternoon before ASAC. Can you please provide me with a list of contacts by Region that should be included. We should already have these groups in the attached list for the AMAC invitation.

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Please provide by Wednesday the list of Aboriginal Groups that should attend this meeting by Region. Following this, we will send out a separate invitation to gauge interest in attending an AMAC meeting on the 29th.

Thank you,
Jenness

From: Browne, Ryan
Sent: February-27-17 11:49 AM
To: Cawthray, Jenness
Subject: RE: AMAC list

From: Cawthray, Jenness
Sent: February-27-17 11:20 AM
To: Browne, Ryan
Subject: AMAC list

Can you send me the latest and greatest list??
Thanks!

Jenness Cawthray
Senior Fisheries and Aquaculture Management Officer |
Agent principal, Gestion des pêches et de l'aquaculture
Fisheries and Oceans | Pêches et océans
200 rue Kent Street - 13S013 Ottawa, ON, K1A 0E6
Jenness.Cawthray@dfo-mpo.gc.ca
Telephone | Téléphone (613) 998-1524
Facsimile | Télécopieur (613) 990-7051
Government of Canada | Gouvernement du Canada

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Cormier, Mélanie

De: Doniol-Valcroze, Thomas
Envoyé: 2 mars 2017 15:36
À: Cawthray, Jenness; Rivierre, Antoine; Mallet, Pierre; Castonguay, Martin; Dunne, Erin; Waters, Christa
Objet: RE: MECTS-#3745265-v1-_AMAC_Agenda_2017.doc

Looks fine to me, Jenness.

Thomass

De : Cawthray, Jenness
Envoyé : 2 mars 2017 15:25
À : Rivierre, Antoine; Doniol-Valcroze, Thomas; Mallet, Pierre; Castonguay, Martin; Dunne, Erin; Waters, Christa
Objet : MECTS-#3745265-v1-_AMAC_Agenda_2017.doc
Importance : Haute

Hello Everyone,
Can you please take a look at the attached agenda and let me know if you have any additions or deletions.
If you could respond by tomorrow morning it would be appreciated so that we can finalize and circulate to AMAC.
Much appreciated.
Thanks!

Jenness Cawthray
Senior Fisheries and Aquaculture Management Officer |
Agent principal, Gestion des pêches et de l'aquaculture
Fisheries and Oceans | Pêches et océans
200 rue Kent Street - 13S013 Ottawa, ON, K1A 0E6
Jenness.Cawthray@dfo-mpo.gc.ca
Telephone | Téléphone (613) 998-1524
Facsimile | Télécopieur (613) 990-7051
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Thomas, Tashina

From: Mallet, Pierre
Sent: March-02-17 4:55 PM
To: Gaudet, Mario; Thomas, Tashina
Subject: Fw: MECTS-#3745265-v1-_AMAC_Agenda_2017.doc
Attachments: MECTS-#3745265-v1-_AMAC_Agenda_2017.doc

Importance: High

Jettez un coup d'oeil on s'en parle

Sent from my BlackBerry 10 smartphone on the Rogers network.

From: Cawthray, Jenness <cawthrayj.Cawthray@dfo-mpo.gc.ca>
Sent: Thursday, March 2, 2017 4:24 PM
To: Rivierre, Antoine; Doniol-Valcroze, Thomas; Mallet, Pierre; Castonguay, Martin; Dunne, Erin; Waters, Christa
Subject: MECTS-#3745265-v1-_AMAC_Agenda_2017.doc

Hello Everyone,
Can you please take a look at the attached agenda and let me know if you have any additions or deletions.
If you could respond by tomorrow morning it would be appreciated so that we can finalize and circulate to AMAC.
Much appreciated.
Thanks!

Jenness Cawthray
Senior Fisheries and Aquaculture Management Officer |
Agent principal, Gestion des pêches et de l'aquaculture
Fisheries and Oceans | Pêches et océans
200 rue Kent Street - 13S013 Ottawa, ON, K1A 0E6
Jenness.Cawthray@dfo-mpo.gc.ca
Telephone | Téléphone (613) 998-1524
Facsimile | Télécopieur (613) 990-7051
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ATLANTIC MACKEREL ADVISORY COMMITTEE
AGENDA

Hotel
Halifax, Nova Scotia
March 30, 2017 (9:00am – 4:00pm)

	ITEM	
1	Opening Remarks	Chair – Brian Lester
2	Science Presentation - Stock Assessment - Joint Assessment with U.S.	Science
3	Management Considerations - Total Allowable Catch for 2017-18 - Monitoring of Commercial and Bait Fisheries - Licencing/ Access - Minimum size - Other	
4	Precautionary Approach Framework / Rebuilding Plan - Response to CESD Audit - Working Group	
	Next Steps - Next meeting	

DRAFT

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s.21(1)(b)

Waters, Christa

From: Lester, Brian
Sent: March-02-17 11:25 AM
To: Waters, Christa; Cawthray, Jenness
Subject: RE: Mackerel thought

Thanks Christa: [redacted]

From: Waters, Christa
Sent: 2017–March-02 8:13 AM
To: Lester, Brian; Cawthray, Jenness
Subject: Mackerel thought

Hello you two,

I reviewed the mackerel IFMP and noticed a few things that we should talk about. The biggest is that in many regions, although the fishery is said to be limited entry, it is possible to get fixed gear licenses if you qualify.

> *10.4.4 Other Relevant Elements*
>
> *a) Licensing*
> *The Atlantic mackerel fishery is a limited entry fishery, except for the issuance of fixed gear licences, as identified in the Regional Management Measures, Annexes 3 to 6.*

For example, in Maritimes, you can have a handline added to your licence as long as you hold a gillnet licence. In Gulf and Quebec you can get a fixed gear licence if you hold a herring fixed gear licence. There are other examples.

[redacted]

Just some thoughts.

Christa

Christa Waters
Regional Senior Fisheries Management Advisor
Resource Management | Gestion des Pêches
Maritimes Region | Région des Maritimes
Fisheries and Oceans Canada | Pêches et Océans Canada
P.O. Box 1006 | C.P. 1006
Dartmouth, NS Canada B2Y 4A2 | Dartmouth, NÉ Canada B2Y 4A2
Christa.Waters@dfo-mpo.gc.ca
Telephone | Téléphone 902-293-6541
Government of Canada | Gouvernement du Canada

de la Loi sur l'accès à l'information.

s.21(1)(b)

Mackerel Assessment Date Mar 3/17

- my own take + draft bullets (not for circulation)
- last day

- does it have industry support

- trend is valid even tho uncertainty exists

- any sci. basis eg to cause decline
- risks of repeat?
- truncated age structure?
- egg → recruits
- ☆ - if they don't want to set triggers early
~~- test it~~ assessment

* ToR
* SAR
  - Proceedings
  - LRPs

(egg-based? → smoothing + CIs
↳ or modelled value?
eg - below 5% CI of 7-years
point is last
or 3 yr smoothed value

10th floor E222

000637

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Patterson, Pauline

De: Rivierre, Antoine
Envoyé: March-03-17 3:53 PM
À: Cawthray, Jenness
Objet: RE: Mackerel landings 2014 and 2015
Pièces jointes: maquereau-2016.pdf

Hi Jenness,
These numbers are preliminary.

In 2016, **851 960 kg** have been landed in Quebec.

Antoine

De : Cawthray, Jenness
Envoyé : March-03-17 3:31 PM
À : Rivierre, Antoine
Objet : RE: Mackerel landings 2014 and 2015
Importance : Haute

Hi Antoine,
Do you have 2016 landings?
Thank you,
Jenness

From: Rivierre, Antoine
Sent: March-01-17 1:35 PM
To: Cawthray, Jenness
Subject: RE: Mackerel landings 2014 and 2015

You are welcome !

By the way is the proposed agenda for AMAC is already ready ?
The provincial government asked me for it this morning ? ☺

Thank you !

Antoine

De : Cawthray, Jenness
Envoyé : March-01-17 1:27 PM
À : Rivierre, Antoine
Objet : RE: Mackerel landings 2014 and 2015

Thank you!

From: Rivierre, Antoine
Sent: March-01-17 1:20 PM

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To: Cawthray, Jenness
Subject: RE: Mackerel landings 2014 and 2015

Bonjour Jenness
Voici la mise à jour du rapport au 1er mars

- 2014 : 1 367 392 kg
- 2015 : 1 045 255 kg

Les chiffres n'ont pas changé !

Antoine

De : Cawthray, Jenness
Envoyé : March-01-17 12:32 PM
À : Rivierre, Antoine
Objet : FW: Mackerel landings 2014 and 2015
Importance : Haute

Hi Antoine,
Can you send me your most recent update on Mackerel landings as soon as possible.
Thank you,
Jenness

From: Lester, Brian
Sent: February-28-17 9:53 AM
To: Cawthray, Jenness
Subject: FW: Mackerel landings 2014 and 2015

From: Rivierre, Antoine
Sent: 2016–December-15 9:13 AM
To: Lester, Brian
Cc: Mallet, Pierre; Hussey-Bondt, Laura; Kerwin, Jessica; Drapeau, André
Subject: TR: Mackerel landings 2014 and 2015

Bonjour monsieur Lester
Comme demandé, vous trouverez en pièce jointe les débarquements de maquereau pour le Québec en 2014 et 2015.

Merci

Antoine Rivierre

Agent régional, Gestion de la ressource et de l'aquaculture
Pêches et Océans Canada / Gouvernement du Canada
Antoine.rivierre@dfo-mpo.gc.ca / Tél. : 418.640.2636

Regional agent, Resource management and Aquaculture
Fisheries and Oceans Canada / Government of Canada
Antoine Rivierre@dfo-mpo.gc.ca / Tel: 418.640.2636

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De : Leblanc, Valérie
Envoyé : December-15-16 9:08 AM
À : Rivierre, Antoine
Objet : TR: Mackerel landings 2014 and 2015

Bonjour Antoine,

Voici les débarquements de maquereau au Québec pour 2014 et 2015.

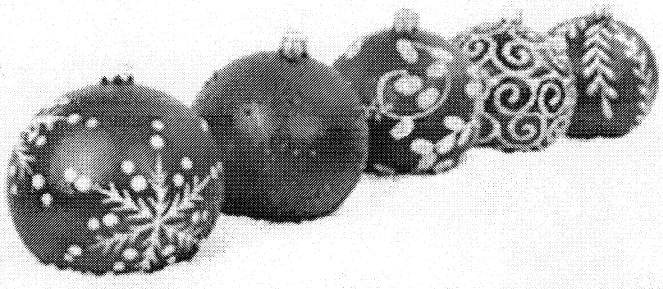
Bonne journée!

Valérie Leblanc

Coordonnatrice statistique int., Division de la statistique et des permis
Pêches et Océans Canada – Région du Québec
104, rue Dalhousie, 3ème étage, Québec, QC G1K 7Y7
valerie.leblanc@dfo-mpo.gc.ca / Téléphone: 418.648.2481 / Télécopieur: 418.648.7981

Act. Statistical Coordinator, Statistics and Licensing Division
Fisheries and Oceans Canada – Quebec Region
104, Dalhousie street, 3rd floor, Quebec, QC G1K 7Y7
valerie.leblanc@dfo-mpo.gc.ca / Tel.: 418.648.2481 / Fax: 418.648.7981

JOYEUSES FÊTES!



De : Drapeau, André
Envoyé : 14 décembre 2016 08:35
À : Leblanc, Valérie
Cc : Rivierre, Antoine
Objet : TR: Mackerel landings 2014 and 2015

Salut Valérie,

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Voici une demande de débarquement de l'Administration centrale [redacted]

Est-ce que tu pourrais acheminer le tableau à Antoine svp qui le fera suivre à Brian Lester.

Merci bcp
AD

De : Lester, Brian
Envoyé : 14 décembre 2016 08:24
À : Mallet, Pierre; Hussey-Bondt, Laura; Kerwin, Jessica; Drapeau, André
Objet : Mackerel landings 2014 and 2015

Can you please provide me with the landings for your region for 2014 and 15 split <65' and if any >65'.

Today if possible. I have numbers but not sure if they were finals for each of the last two years.

Thanks
Brian

Sent from my BlackBerry 10 smartphone on the Rogers network.

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Région du Québec

PEC015 - Débarquements par Secteur de Débarquement et Espèce

PÉRIODE

DATE D'OPÉRATION ENTRE 2016-01-01 ET 2016-12-31

PARAMÈTRE(S) DE SÉLECTION

BATEAU(X)	: Tous	**NIP(S) INTERVENANT(S)**	: Tous
LONGUEUR BATEAU(X)	: Tous	**CODE(S) COMMUNAUTÉ(S) DE RÉSIDENCE(S)**	: Tous
CODE(S) ESPÈCE(S) CAPTURÉE(S)	: 250	**CODE(S) SOUS-SECTEUR(S) DE RÉSIDENCE(S)**	: Tous
CODE(S) ENGIN(S)	: Tous	**CODE(S) SECTEUR(S) DE RÉSIDENCE(S)**	: Tous
CODE(S) COMMUNAUTÉ(S) DE DÉBARQUEMENT(S)	: Tous	**CODE(S) SECTEUR(S) ADM. PERMIS**	: Tous
ACHETEUR(S)	: Tous	**CLASSE(S) PERMIS**	: Tous
ZONE(S) OPANO	: Tous	**NUMÉRO(S) PERMIS**	: Tous
ZONE(S) DE GESTION	: Tous		

OPTION(S) DU RAPPORT

UNITÉ DE MESURE EN KILOGRAMME
PÊCHE NON-COMMERCIALE (RAS) EXCLUE
CONSOMMATIONS PERSONNELLES ET REJETS AU DÉBARQUEMENT INCLUS

Date d'exécution : 2017-03-03
15:45

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Pêches et Océans Canada | Fisheries and Oceans Canada

PROTÉGÉ PRÉLIMINAIRE

Région du Québec

PEC015 - Débarquements par Secteur de Débarquement et Espèce

SECTEUR DÉBARQUEMENT	CODE ESPÈCE	ESPÈCE	QUANTITÉ (KG)	VALEUR ($)
CÔTE-NORD	250	Maquereau	[redacted]	27 395
Total pour le secteur : CÔTE-NORD			[redacted]	**27 395**
GASPÉSIE	250	Maquereau	[redacted]	586 005
Total pour le secteur : GASPÉSIE			[redacted]	**586 005**
ILES-DE-LA-MADELEINE	250	Maquereau	[redacted]	263 654
Total pour le secteur : ILES-DE-LA-MADELEINE			[redacted]	**263 654**
Total pour le rapport :			**851 960**	**877 054**

Date d'exécution : 2017-03-03
15:45

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Cormier, Mélanie

De: Gaudet, Mario
Envoyé: 3 mars 2017 13:15
À: Cawthray, Jenness
Cc: Lester, Brian; Thomas, Tashina; Mallet, Pierre; Dunne, Erin; Rivierre, Antoine; Waters, Christa
Objet: RE: Consultation with aboriginal groups
Pièces jointes: Aboriginal groups Gulf 2017.xlsx

Hi Jenness,

Following a discussion with Pierre Mallet on this issue, initially we only provided the updated list of Aboriginal groups involved in the mackerel fishery (e-mail sent this morning). However, given the fact some groups might have an interest in either the commercial or the recreational fishery / or even both down the road, we are providing you with the updated list of Aboriginal groups for the Gulf Region (see attachment). The invitation should go out to fisheries coordinators if this is the preferred option...

Hope this helps!

Mario

From: Cawthray, Jenness
Sent: March-03-17 1:24 PM
To: Gaudet, Mario; Thomas, Tashina; Mallet, Pierre; Dunne, Erin; Rivierre, Antoine; Waters, Christa
Cc: Lester, Brian
Subject: Consultation with aboriginal groups
Importance: High

Hi All,

I have spoken to you several of you regarding the contact list for aboriginal consultations. There are several considerations:

1) Do we include all aboriginal groups as part of the duty to consult
   OR
2) Do we only include those aboriginal groups that are involved in the mackerel fishery - my thought was only those that fish for mackerel; however I am not familiar with the requirements under duty to consult or the consultative process for aboriginal groups.

Can you please reply all to this email and clarify which criteria you are using in creating your list of Aboriginal contacts for AMAC.

As we are under very tight timelines for this, I appreciate if you could response this afternoon.

Jenness Cawthray
Senior Fisheries and Aquaculture Management Officer |
Agent principal, Gestion des pêches et de l'aquaculture
Fisheries and Oceans | Pêches et océans
200 rue Kent Street - 13S013 Ottawa, ON, K1A 0E6

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Gulf Region

First Nations / Native Councils

First Nation & Native Coucil	Address	Contact	Title
Abegweit	Chief Brian Francis and Council Abegweit First Nation P.O. Box 36 Mt. Stewart. PE C0A 1T0	Brian Francis	Chief
			Fisheries Coordinator
Buctouche MicMac Band	Chief Ann Mary Steele and Council Buctouche Band 9 Reserve Road Bustouche Reserve, NB E4S 4G2	Ann Mary Steele	Chief
			Fisheries Coordinator/AFS Coordinator
Eel Ground	Chief Ginnish and Council Eel Ground Band 47 Church Road	George Ginnish	Chief
			AFS coordinator
			Fisheries Coordinator
Eel River Bar First Nation	Chief Martin and Council Eel River Bar First Nation 11 Main St., Unit 201	Everett Martin	Chief
			Fisheries Coordinator/AFS Coordinator
Elsipogtog First Nation	Chief Aaron Sock and Council Elsipogtog First Nation 373 Big Cove Road Elsipogtog First Nation, NB E4W 2S3	Aaron Sock	Chief
			AFS Coordinator
			Fisheries Coordinator
			Researcher and Government Relation
Esgenoôpetitj First Nation	Chief Paul and Council Esgenoôpetitj First Nation 620 Bayview Drive Burnt Church, NB E9G 2A8	Alvery Paul	Chief
			Fisheries Coordinator
Indian Island	Chief Kenneth Barlow and Council Indian Island Band	Kenneth Barlow	Chief & AFS Coordinator

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	Indian Island Band 61 Indian Island Drive Indian Island, NB E4W 1S9		
Lennox Island	Chief Matilda Ramjattan and Council Lennox Island First Nation Box 134 Lennox Island, PEI C0B 1P0	Matilda Ramjattan	Chief Fisheries Director Band Administrator
Madawaska Maliseet First Nation	Chief Patricia Bernard and Council Madawaska Maliseet First Nation 1771 Main Street Madawaska Maliseet First Nation, NB E7C 1W9	Patricia Bernard	Chief Fisheries Coordinator AFS Coordinator
Metepenagiag Mi'kmaw Nation	Interim Chie William (Bill) Ward and Council Metepenagiag Mi'kmaq Nation P.O. Box 293 Metepenagiag Mi'kmaq Nation, NB E9E 2P2	William (Bill) Ward William Ward	Chief Fisheries Coordinator/AFS Coordinator
New Brunswick Aboriginal Peoples Council	Chief and President Wetteland New Brunswick Aboriginal Peoples Council 320 St. Mary's St. Fredericton, NB E3A 2S4	Wendy Wetteland	Chief and President AFS Coordinator Fisheries Coordinator
Native Council of Prince Edward Island	Chief and President Cooper Native Council of PEI 6 F.J McAulay Court Charlottetown, PE C1A 9M7	Lisa Cooper	Chief and President Fisheries Coordinator
Pabineau	Chief David Peter-Paul and Council	David Peter-Paul	Chief

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	Pabineau Band 1290 Pabineau Falls Rd. Pabineau First Nation, NB E2A 7M3		Fisheries Coordinator/AFS Coordinator
Paq'tnkek Mi'kmaw Nation	Chief Paul James Prosper and Council Paq'tnkek Mi'kmaw Nation RR #1 Afton, NS B0H 1A0	Paul Prosper	Chief Fisheries Manager
Pictou Landing	Chief Paul and Council Pictou Landing First Nation Site 6, Box 55, RR #2 Trenton, NS B0K 1X0	Andrea Paul	Chief Fisheries Coordinator AFS coordinator
Tobique	Chief Perley and Council Tobique Band 13100 Route 105 Tobique First Nation. NB E7H 3Y4	Ross Perley	Chief AFS Coordinator

Aboriginal Aquatic Resource & Oceans Management (AAROM)

AAROM	Address	Contact	Title
GMRC	Gespe'gewaq Mi'gmaq Resource Council 1 Marshall Way Listuguj, QC G0C 2R0		Executive Director Aquatic Resource Director Commercial Fisheries Liasion Coordinator (CF
MCPEI	Mi'kmaq Confederacy of PEI	I Randy Angus	Executive Director Director,Integrated Resource Management

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	Consultation Unit PolyClinic, Suite 501 199 Grafton Street Charlottetown, PE C1A 1L2		Commercial Fisheries Liasion Coordinator (CF . .
Anqotum Resource Managment (NSMDC)	Anqotum Resource Managment 32 MicMac Rd. Eel Ground, NB E1V 4B1		Manager - AAROM Environmental Services Program Manager Commercial Fisheries Liasion Coordinator (CF

Assembly of First Nations

Assembly	Address	Contact	Title
ANSMC / KMKNO	Assembly of Nova Scotia Mi'kmaq Chiefs Kwilmu'kw Maw-klusuaqn Negotiation Office 75 Treaty Trail Truro, NS B2N 6N8		Consultation Liaison KMK Fisheries Coordinator
Mi'gmawe'l Tplu'taqnn Incorporated (MTI)	Mi'gmawe'l Tplu'taqnn Incorporated 38 Micmac Road Eel Ground NB E1V 4B1		Fisheries Governance Coordinators Researcher and Government Relation

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Email	Region	Phone	Cell
[redacted]	Gulf	(902) 676-2353	.
		(902) 676-2353	[redacted]
[redacted]	Gulf	(506) 743-2520	.
[redacted]		(506) 743-2178	.
[redacted]	Gulf	(506) 627-4600	[redacted]
		(506) 627-4604	
		(506) 627-2730	
	Gulf	(506)684-6299	
		(506) 684-6311	
chief@efnbo.ca	Gulf	(506) 523-8200	
[redacted]		(506) 523-8267	
		(506) 523-4722	
		000-0000	
[redacted]	Gulf	(506) 776-1310	
		.	
chief@iifn.ca		(506) 523-1913	

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s.19(1)

	Gulf		
	Gulf	(902) 831-2168	
madawaskamaliseet@bellaliant.com	Gulf	(506) 739-9764	
madawaskamaliseet@bellaliant.com		(506) 739-9765	
	Gulf	(506) 836-6111	
		(506) 836-6133	
chief@nbapc.org	Gulf	(506) 458-8422	
		(506) 458-8422	
		(506) 458-8422	
	Gulf	(902) 892-5314	
		(902) 892-5314	
		(506) 548-9211	

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[redacted]	Gulf	(506) 548-9211	[redacted]
	Gulf	(902) 386-2781 (902) 386-2781	
	Gulf	(902) 752-4912 (902) 752-4912 (902) 752-4912	
	Gulf	(506) 273-5560 (506) 273-1857	

s.19(1)

Email	Region	Phone	Cell
[redacted]	Gulf	(418) 788-3178 (418) 788-3145 (581)358-0025	[redacted]
		(902) 626-3345 (902) 367-3660	

s.19(1)

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	Gulf	(902)894-1788 E	
	Gulf	(506) 627-4611	
		(506) 627-2730	
		(506) 627-2730	

Email	Region	Phone	Cell
		.	.
	Gulf	.	.
	Gulf and Maritime	506-627-2730	.
		506-455-1881	.
		.	.

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Cormier, Mélanie

De: Cawthray, Jenness
Envoyé: 3 mars 2017 13:55
À: Rivierre, Antoine; Waters, Christa; Gaudet, Mario; Thomas, Tashina; Mallet, Pierre; Dunne, Erin
Cc: Lester, Brian
Objet: RE: Consultation with aboriginal groups

Hi Everyone,
I just spoke to Brian on the way forward with this. Also, took into consideration comments from the regions. Everyone should provide the full list of aboriginal contacts to ensure broad consultation and also that we are meeting requirements for duty to consult.

As such, it looks like I already have the full list from Gulf, NL and Quebec. Just need an updated list from the Maritimes.

Thanks everyone for your input.

Jenness

From: Rivierre, Antoine
Sent: March-03-17 1:48 PM
To: Waters, Christa; Cawthray, Jenness; Gaudet, Mario; Thomas, Tashina; Mallet, Pierre; Dunne, Erin
Cc: Lester, Brian
Subject: RE: Consultation with aboriginal groups

I gave you the lists provide by our Coordinators of Aboriginal fisheries for the Gaspésie and the north shore of Québec. These lists include, the fisheries coordinators of each communities and contacts from aboriginal organizations working on fishery's management (AMIK and AGHAMM)
Considering that mackerel is used as bait it can be an issue for aboriginals group which target snow crab and lobster and not only those which are directly involved in the mackerel fishery

Antoine

De : Waters, Christa
Envoyé : March-03-17 12:27 PM
À : Cawthray, Jenness; Gaudet, Mario; Thomas, Tashina; Mallet, Pierre; Dunne, Erin; Rivierre, Antoine
Cc : Lester, Brian
Objet : RE: Consultation with aboriginal groups

I added all groups that have a mackerel licence (the fisheries coordinators – not chiefs) and the CFLC's (commercial fishery liaison coordinators – we have four in our region), and some of the other organizations that attend all our meetings (MAPC etc)

Christa Waters
Regional Senior Fisheries Management Advisor
Resource Management | Gestion des Pêches

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s.21(1)(b)

Maritimes Region | Région des Maritimes
Telephone | Téléphone 902-293-6541

From: Cawthray, Jenness
Sent: March 3, 2017 1:24 PM
To: Gaudet, Mario; Thomas, Tashina; Mallet, Pierre; Dunne, Erin; Rivierre, Antoine; Waters, Christa
Cc: Lester, Brian
Subject: Consultation with aboriginal groups
Importance: High

Hi All,

I have spoken to you several of you regarding the contact list for aboriginal consultations. There are several considerations:

1) Do we include all aboriginal groups as part of the duty to consult
   OR
2) Do we only include those aboriginal groups that are involved in the mackerel fishery - my thought was only those that fish for mackerel; however I am not familiar with the requirements under duty to consult or the consultative process for aboriginal groups.

Can you please reply all to this email and clarify which criteria you are using in creating your list of Aboriginal contacts for AMAC.

As we are under very tight timelines for this, I appreciate if you could response this afternoon.

Jenness Cawthray
Senior Fisheries and Aquaculture Management Officer |
Agent principal, Gestion des pêches et de l'aquaculture
Fisheries and Oceans | Pêches et océans
200 rue Kent Street - 13S013 Ottawa, ON, K1A 0E6
Jenness.Cawthray@dfo-mpo.gc.ca
Telephone | Téléphone (613) 998-1524
Facsimile | Télécopieur (613) 990-7051
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Cormier, Mélanie

De: Cawthray, Jenness
Envoyé: 3 mars 2017 09:40
À: Castonguay, Martin; Rivierre, Antoine; Doniol-Valcroze, Thomas; Mallet, Pierre; Dunne, Erin; Waters, Christa
Objet: RE: MECTS-#3745265-v1-_AMAC_Agenda_2017.doc

This is helpful. Thanks!
I will send another agenda back to you today and will provide more information on timing.

From: Castonguay, Martin
Sent: March-03-17 8:44 AM
To: Cawthray, Jenness; Rivierre, Antoine; Doniol-Valcroze, Thomas; Mallet, Pierre; Dunne, Erin; Waters, Christa
Subject: RE: MECTS-#3745265-v1-_AMAC_Agenda_2017.doc

Hi Jenness,

Here are my suggestions of how to write the Science portion of the agenda:

Science presentations Science

Results of a poll sent to harvesters on missing catches
Stock Assessment
Collaboration with US on stock assessments

I will present poll results while Thomas will present stock assessment and collaboration with the US.

How much time do you plan to allow for the science presentations ?

Thanks,

Martin

De : Cawthray, Jenness
Envoyé : 2 mars 2017 15:25
À : Rivierre, Antoine; Doniol-Valcroze, Thomas; Mallet, Pierre; Castonguay, Martin; Dunne, Erin; Waters, Christa
Objet : MECTS-#3745265-v1-_AMAC_Agenda_2017.doc
Importance : Haute

Hello Everyone,
Can you please take a look at the attached agenda and let me know if you have any additions or deletions.
If you could respond by tomorrow morning it would be appreciated so that we can finalize and circulate to AMAC.
Much appreciated.
Thanks!

Jenness Cawthray
Senior Fisheries and Aquaculture Management Officer |

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s.21(1)(b)

Cormier, Mélanie

De: Hardy, Magalie
Envoyé: 3 mars 2017 12:22
À: Rivierre, Antoine; Richard, Josée; Morin, Mathieu; Boulay, Stéphane; Bourgeois, Raoul
Objet: RE: MECTS-#3745265-v1-_AMAC_Agenda_2017.doc

Pas de commentaire additionnel de mon côté.

De : Rivierre, Antoine
Envoyé : 3 mars 2017 09:47
À : Richard, Josée; Hardy, Magalie; Morin, Mathieu; Boulay, Stéphane; Bourgeois, Raoul
Objet : RE: MECTS-#3745265-v1-_AMAC_Agenda_2017.doc

Salut Josée,
De ce que je sais,

Une réunion entre le MPO-Golfe et la compagnie de vérification à quai du NB doit avoir lieu avant le comité pour s'assurer de ce qui est possible en terme de %.

Pour ce qui est de l'accès et des permis, je ne sais pas exactement ce qui sera abordé je vais poser la question.

Antoine

De : Richard, Josée
Envoyé : March-03-17 9:19 AM
À : Rivierre, Antoine; Hardy, Magalie; Morin, Mathieu; Boulay, Stéphane; Bourgeois, Raoul
Objet : RE: MECTS-#3745265-v1-_AMAC_Agenda_2017.doc

Merci Antoine,

Est-ce que tu peux me donner plus de détails sur ces 2 points :

- Monitoring of Commercial and Bait Fisheries
- Licencing/ Access

Quelles sont les messages qui seront passés du côté du MPO?

De : Rivierre, Antoine
Envoyé : 3 mars 2017 09:30
À : Hardy, Magalie; Morin, Mathieu; Richard, Josée; Boulay, Stéphane; Bourgeois, Raoul
Objet : TR: MECTS-#3745265-v1-_AMAC_Agenda_2017.doc
Importance : Haute

Bonjour.
Vous trouverez ci-joint la proposition d'agenda pour le comité consultatif sur le maquereau..

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Si vous avez des ajouts ou des commentaires, je vous invite à me les transmettre le plus rapidement possible aujourd'hui.

Merci d'avance

Antoine

De : Cawthray, Jenness
Envoyé : March-02-17 3:25 PM
À : Rivierre, Antoine; Doniol-Valcroze, Thomas; Mallet, Pierre; Castonguay, Martin; Dunne, Erin; Waters, Christa
Objet : MECTS-#3745265-v1-_AMAC_Agenda_2017.doc
Importance : Haute

Hello Everyone,
Can you please take a look at the attached agenda and let me know if you have any additions or deletions.
If you could respond by tomorrow morning it would be appreciated so that we can finalize and circulate to AMAC.
Much appreciated.
Thanks!

Jenness Cawthray
Senior Fisheries and Aquaculture Management Officer |
Agent principal, Gestion des pêches et de l'aquaculture
Fisheries and Oceans | Pêches et océans
200 rue Kent Street - 13S013 Ottawa, ON, K1A 0E6
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Waters, Christa

From: Waters, Christa
Sent: March-03-17 11:53 AM
To: [redacted] Allan Chandler; Atlantic Herring Co-op / Full Bay Scallop; Aurelie Cosandey-Godin ; [redacted] Bieren, Stacey; [redacted] Boone, Brian (DAAF/MAAP); [redacted] Campbell, Michael; [redacted] Cheney, Sarah; [redacted] Fort Folly FN; [redacted] North of Smokey; [redacted] Singh, Rabindra; Surette, Dwayne E; [redacted]
Cc: Waters, Christa
Subject: Mackerel Business
Attachments: Plourde et al - 2015.pdf; MARMAC minutes Feb 2016 DRAFT_LHB.docx; MACKEREL PT II SOR-94-45.pdf; MARMAC_draft_Terms of Reference_clw.docx

Hello,

Immediate apologies for this long email with a large amount of information. If you have any questions, please contact me and I will attempt to make it clearer.

Please find the draft minutes from the last Maritimes Mackerel Advisory Committee. Please review and send me any comments by March 10, 2017. If I do not receive any comments by then, they will be considered final.

Action Items - Last Meeting

There was some reference material that was requested from the last meeting. The paper '*Effect of environmental variability on body condition and recruitment success of Atlantic Mackerel (Scomber scombrus L.) in the Gulf of St. Lawrence'* written by Plourde et al. (2015) is attached as requested.

There was also a request for more information on EBSA's. Links to this information is at the bottom of this email along with a map of all the EBSAs identified in the area.

The Mackerel Fishing Areas as described in the Atlantic Fishery Regulations is also attached.

Upcoming Meeting – Agenda items

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In the minutes from last year, the action items remaining to be addressed are clear instructions on logbook and monitoring requirements. I will add this as an agenda item for this meeting. However, when in doubt, please refer to your licence conditions. There are been some gear questions that remain. We will also add this to the agenda for this meeting. These will both be topics that will be discussed at the Atlantic Mackerel Advisory Committee as well.

Science is able to call in for the first of the meeting to review the stock assessment results.

I have attached a draft Terms of Reference for our advisory Committee. The section in red is on membership and we will need to dedicate some time on how that should be determined. This is only a draft document so any comments, suggested changes or additions are welcome.

Please send along any additional agenda items that you would like to add for our Regional meeting on March 23, 2017 from 1-4. Suggestions should be in by March 10, 2017. If we have too many items to cover, we will have to either talk about an additional meeting or doing some items though a conference call. Please remember that Safety at Sea is a standing item for all of our Advisory Committee meetings. If you have anything to present, please let me know and also how much time you require.

WebEx information will be sent the morning of the meeting and call-in information will be sent with the Agenda. The meeting will take place at:

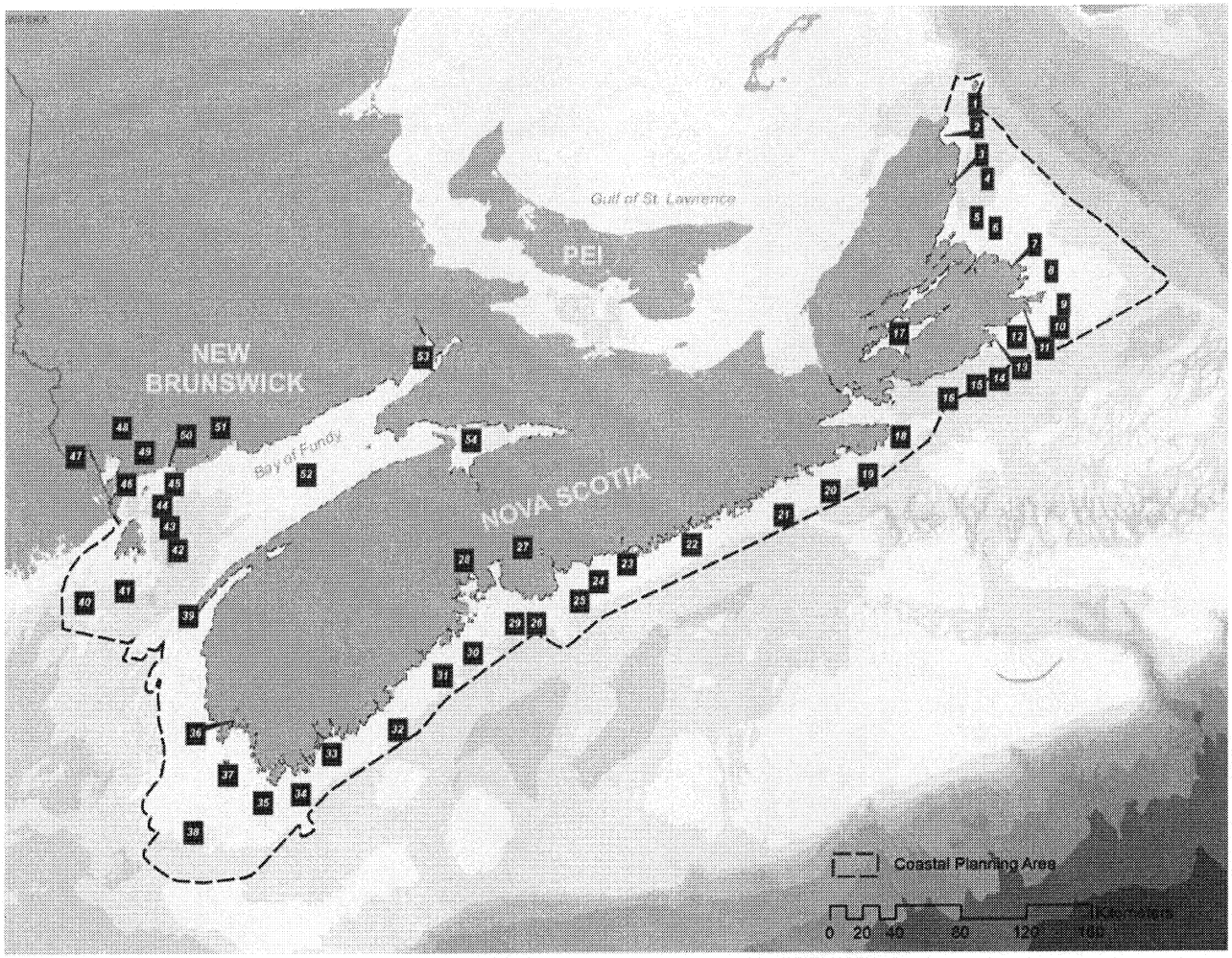
Fairbanks Centre – Shubie Park
54 Locks Road, Dartmouth
Nova Scotia, B2X 2W7

EBSAs Information Requested

Bay of Fundy EBSAs: http://www.dfo-mpo.gc.ca/Csas-sccs/publications/resdocs-docrech/2013/2013_065-eng.pdf
Atlantic coast EBSAs: http://publications.gc.ca/collections/collection_2015/mpo-dfo/Fs97-6-3107-eng.pdf

See below for the map of EBSAs in our region. It is important to note that this is one ecological information source for the MPA planning process and that not all EBSAs will become MPAs! ☺ EBSA-specific rationale and descriptions can be found in the reports…

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Thanks for your time and reading through the whole email!

Respectfully,
Christa

Christa Waters
Regional Senior Fisheries Management Advisor
Resource Management | Gestion des Pêches
Maritimes Region | Région des Maritimes
Fisheries and Oceans Canada | Pêches et Océans Canada
P.O. Box 1006 | C.P. 1006
Dartmouth, NS Canada B2Y 4A2 | Dartmouth, NÉ Canada B2Y 4A2
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Available online: https://onlinelibrary.wiley.com/doi/abs/10.1111/fog.12113

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FISHERIES OCEANOGRAPHY

FISHERIES OCEANOGRAPHY *Fish. Oceanogr. 24:4, 347–363, 2015*

Effect of environmental variability on body condition and recruitment success of Atlantic Mackerel (*Scomber scombrus* L.) in the Gulf of St. Lawrence

STÉPHANE PLOURDE,[1]* FRANÇOIS GRÉGOIRE,[1] CAROLINE LEHOUX,[1] PETER S. GALBRAITH,[1] MARTIN CASTONGUAY[1] AND MARC RINGUETTE[2]

[1]*Fisheries and Oceans Canada, Institut Maurice-Lamontagne, 850, Route de la Mer, Mont-Joli, QC, Canada, G5H 3Z4*
[2]*Fisheries and Oceans Canada, Bedford Institute of Oceanography, 1 Challenger Drive, PO Box 1006, Dartmouth, NS, Canada, B2Y 4A2*

ABSTRACT

The objective of this study was to assess the effect of environmental variability on the dynamics of the Atlantic mackerel (*Scomber scombrus* L.) stock in the Gulf of St. Lawrence (GSL). We first described the dominant modes of physical and biological (zooplankton) variability using Principal Components Analyses of 40 variables. Two principal modes of variability were identified, a long-term mode (15–20 yr) associated with a warming of the GSL and a second mode describing alternating cold and warm periods at a higher frequency (5–10 yr). A strong link between physical forcing and the dynamics of zooplankton species known to be important for mackerel was shown. Second, a set of Generalized Additive Models (GAM) was developed to explore how these environmental variations could influence mackerel condition (Fulton's K) and recruitment success (R_s). Optimal GAMs including variations in abundance, species composition and phenology of key copepods improved model performance by 40–50% relative to those considering only physical environmental conditions. The results are consistent with the match–mismatch hypothesis and illustrate the key role of zooplankton dynamics in modulating variations in mackerel K and R_s. Finally, this study showed that large variations in R_s could be caused by varying environmental conditions independently of the influence of stock biomass. Our results strongly indicate that the effect of environmental variability should be considered in the implementation of an ecosystem-based approach to Atlantic mackerel stock management.

Key words: climate change, copepods, Gulf of St. Lawrence, mackerel, recruitment

INTRODUCTION

The Gulf of St. Lawrence (GSL) is the southernmost body of water with a seasonal ice cover in the northwest Atlantic. It is under the combined influence of Arctic and Atlantic water from the adjacent Labrador and Newfoundland shelf and deep slope and the important freshwater runoff from the St. Lawrence River. In summertime, the water column in the GSL comprises three distinct layers: the surface layer, the cold intermediate layer (CIL) and a deeper water layer. Maximum surface temperatures are typically observed from mid-July to mid-August (Galbraith *et al.*, 2012). During the winter, there are only two layers as the surface layer deepens mostly from wind-driven mixing prior to ice formation, and encompasses the CIL (Galbraith, 2006). The deeper water layer (>150 m) is characterized by temperatures between 1 and >7°C and salinities between 32.5 and 35 enter the Laurentian Channel at the continental shelf margin; it circulates upstream in the GSL towards the heads of the deep channels without much exchange with the upper layers (Gilbert, 2004). The region showed a significant warming trend and a diminishing duration and volume of sea ice over the last two decades (Galbraith *et al.*, 2014).

The zooplankton biomass in the GSL is dominated by the planktonic copepods, *Calanus finmarchicus*, *C. glacialis* and *C. hyperboreus*. These taxa also contribute most to the total mesozooplankton abundance during spring and summer. The planktonic copepod, *Oithona* spp, and other small taxa numerically dominate in fall and winter (Plourde *et al.*, 2002, 2014). In general, *Calanus* species are transported to shallower areas (<100 m) such as the southern GSL from a

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Received 21 October 2014
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Fisheries and Oceans Canada | Pêches et Océans Canada

Meeting Minutes

Maritimes Mackerel Advisory Committee Meeting

Feb 26, 2016, 9:00-12:30

Participants	
In Attendance	
NAME	**POSITION**
[redacted]	North of Smokey Fishermen's Association
	WWF-Canada
	St Margaret's Bay Trap Net
	Prospect Area Fulltime Fishermen's Association
	New Brunswick Wildlife Federation
	North of Smokey Fishermen's Association
	Prospect Area Fulltime Fishermen's Association
	Guysborough County Inshore Fishermen's Association
	Ecology Action Centre
	Ecology Action Centre
	Eastern Shore Fishermen's Protective Association
	Mackerel Fisherman
	Halifax West Commercial Fishermen's Association
	St Margaret's Bay Trap Net
	Cape Breeze Seafoods
	Scotia Garden Seafood Inc.
	Connors Bros.
	LFA 27 Management Board
Via Phone	
NAME	**POSITION**
Dwayne Surette	DFO Resource Management – SWNS Area Office
[redacted]	Comeau's Seafood
Martin Castonguay	DFO Science - Quebec
[redacted]	Grand Manan Fishermen's Association
[redacted]	Consultant working on behalf of the NS/NB Lobster Eco-certification Society
[redacted]	Seafood Producers Association of NS
Sarah Cheney	DFO Resource Management – SWNB Area Office
Thomas Doniol-Valcroze	DFO Science - Quebec
[redacted]	Native Council of Nova Scotia

Agenda Items and Corresponding Discussion Notes

	TOPIC	LEAD
1.	**Introductions**	Lead: Laura Hussey-Bondt

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	Highlights/Outcome: • This committee has been convened because of interest expressed from fishing industry representatives in having a regional forum to discuss the mackerel fishery. There is also benefit to DFO in having a regional forum to discuss issues, management measures, etc. • The expectation is that this meeting will be held prior to the Atlantic Mackerel Advisory Committee (AMAC) meeting each year (this year, AMAC will meet via conference call in April). The two main roles for this committee will be 1) to provide a forum to focus on regional fisheries issues and regional management measures; and 2) to prepare for AMAC through considering regional issues/perspectives and how they might feed into the Atlantic-wide discussions. • The North of Smokey Fishermen's Association requested to add an item to the agenda for today. [redacted] Laura indicated that this would be added at the end of the current list of agenda items. For Action: None	
2.	**Discuss committee membership, Terms of Reference**	Lead: Laura Hussey-Bondt
	Highlights/Outcome: • Since there has not been a regional-level mackerel advisory committee in Maritimes Region in recent years, new terms of reference (ToRs) should be developed to guide the work of this group. • Two examples of ToR documents from other advisory committees (the Scotia-Fundy Groundfish Advisory Committee, and the Scotia-Fundy Large Pelagics Advisory Committee) were circulated via email to this group prior to the meeting for consideration. • Some of the text for fishery advisory committee ToRs is fairly standard across committees. One thing people may have suggestions on is how we define the membership of this committee. Note that generally, there is a section on public access that indicates meetings are open to those who wish to attend, for the most part. However, membership should include whoever we think ought to be part of this group to help ensure it represents a good variety and balance of perspectives from the various interests involved. • It was noted by one fishery representative that many people are interested in this committee, interested in being involved in discussions on the mackerel fishery, but many haven't heard about this group yet. • It was suggested that we should also consider the Gulf Region's mackerel advisory committee. If some groups are already represented on that committee, they may not require representation in this group as well. • It was noted that management boards/fishermen's associations should be at the table, rather than individual fishers who only represent themselves. • It was noted that while it is important to have representation from all interests at the table, the group can't be too big either or it will be difficult to get anything done. • It was suggested that membership will, to come extent, work itself out over time as those who really want and need to be at the table will come and will stay involved. • Laura proposed that she could work on drafting a ToR document for this committee and would circulate it to the group for review and comment. For Action: • All meeting participants to help spread the word on this committee to anyone who might be interested or should be involved, to help identify the people who should be part of this committee and to make sure people are aware of it. Suggestions for participants can be	

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	provided to Laura, and those with an interest in participating can contact Laura. • Laura to draft Terms of Reference for this committee to circulate to the group for comment.	
3.	**Science Update**	Lead: Thomas Doniol-Valcroze
	Highlights/Outcome: • Thomas was introduced as the new mackerel stock assessment lead for DFO Science. He is based in Quebec. • It was noted that the last stock assessment for mackerel was in 2014 (using data up to 2013). There will be no new assessment or science update document this year. The next assessment is planned for 2017. • Thomas reviewed the science presentation that was circulated to the group prior to the meeting. • He noted the collapsed state of the Atlantic mackerel stock, as indicated in the 2014 stock assessment, and that this is the longest period we have seen with no strong recruitment events occurring. • He also noted that the quality of the assessment has been negatively impacted by unreported catch, particularly in the bait fishery, and also in the recreational fishery. This is a significant issue, and affects our understanding of stock productivity. • Additionally, environmental changes may be impacting mackerel condition, recruitment, and possibly distribution. • It was noted that, while Canada and the US have been assessing and managing mackerel separately, there has been recent renewed interest in working cooperatively on science, to help improve our understanding of what is happening with the stock. • It was noted that work is currently underway to help address the issue of unreported catch, including a project aimed at developing a model that incorporates a proxy for unreported bait catches by looking at the bait needs of 3 major fisheries using mackerel as bait (lobster, crab, and tuna). • An industry representative noted that it is important to be aware that not all bait used in local fisheries comes from local stocks – bait can be imported from elsewhere. • [redacted] noted his interest and involvement in bait issues due to related conditions in the lobster industry's Marine Stewardship Council (MSC) certification. He indicated he would be interested in discussing further with the DFO mackerel science group. • There were some questions asked about whether there may be other spawning areas for mackerel, other than in the Gulf where we do annual egg surveys as an index of abundance for the stock assessment. DFO Science noted that surveys were done off northeast Newfoundland last year, but found nothing. There are plans to repeat this survey again this year to confirm. There is known to be some spawning that occurs in other areas (e.g. south coast of NS), but it is a very small proportion compared to the Gulf. • Many participants recommended that additional science work should be done to increase confidence in the results of the stock assessment, and to better understand what is happening with the stock. • DFO Science noted that it had been suggested that a joint stock assessment between Canada and the US be undertaken via the Transboundary Resource Assessment Committee (TRAC). However, since there is no interest at this time in pursuing joint management of mackerel fisheries with the US, it has been determined that this would not be the most appropriate forum. Instead, DFO will likely do its own stock assessment, but US scientists will be invited to participate in the process. For Action: • Laura to distribute to the Advisory Committee group the Plourde et al. 2015 paper on	

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	environmental effects on mackerel that was discussed.	
4.	**Preliminary discussion on regional views regarding 2016 Canadian Atlantic Mackerel total allowable catch (TAC)**	Lead: Laura Hussey-Bondt
	Highlights/Outcome: • Laura noted that a full discussion on TAC recommendations will occur at AMAC; the purpose of this discussion is to help identify and focus on what the views are regionally. • She also noted that, based on the most recent assessment, the stock is at a historic low abundance, and so conservation and rebuilding must be a priority. She noted the TAC and total landings amounts for the last few years, as distributed prior to the meeting (in 2015, the Atlantic-wide TAC was 8000t; 10,000t in 2014; 36,000t in 2013; total landings have continued to remain well below the TAC). • The representative for GCIFA noted that the water was colder and mackerel were later arriving last season, but also stayed later. • An industry representative noted that in the past, it was assessed that Canada had about half of the mackerel resource on its side of the border, and the US had half. If we want to maintain that position, we should set our TAC so that it is equal to the US (the US TAC for last year was 25,000t, though their landings have been well below that). Otherwise, we may put ourselves at a disadvantage if we were ever to come to a point where allocations were determined jointly between the US and Canada. • Laura noted that if we were ever looking at determining shares of a joint TAC, catch history would likely play a bigger role than whether or not we set an inflated TAC. She also suggested that we ought to be demonstrating good stewardship of the resource by taking responsible management measures. • An industry representative suggested that since we have no new science advice, and we seem to be in a similar position to last year, a rollover of the 8000t quota seems appropriate. There was support for this position from a number of other industry representatives. • One industry representative suggested that the TAC should at least not be reduced. The TAC has already been reduced quite a bit, there seem to be a lot of mackerel around, and there are some uncertainties in the most recent assessment and no new science advice available. It was suggested there is no evidence at this point to support a decrease in TAC. • Laura noted that, even with the uncertainties in the most recent stock assessment, the evidence we have still suggests that the stock is at the lowest level of abundance that we've seen. This seems to be supported by the fact that landings in the fishery continue to decline, even though they have not been limited by the TAC. • There was some discussion by industry representatives on a perceived need for new/improved science to support our understanding of this stock and the impacts of the fishery. It was questioned whether there could be opportunities for industry supported science work to be carried out, such as the possibility for using existing acoustic surveys for herring, or other existing surveys, to do surveys for mackerel as well. • Laura noted that the main issue highlighted by DFO Science is the lack of adequate monitoring and reporting of catch. We can address this through industry representatives encouraging their members to complete their logbooks as required, and through considering whether additional monitoring requirements might be appropriate in our mackerel fisheries. For Action: • Laura to provide a summary of the views expressed by this group to the chair of AMAC for information.	
5.	**Update on Marine Protected Areas network planning and**	Lead: Marty King

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	Canada's marine conservation targets	
	Highlights/Outcome: • Marty reviewed the presentation that was distributed prior to the meeting on developing a marine protected area (MPA) network in our region. • It was noted that a current federal government priority, as indicated in the mandate letter to the Minister of Fisheries and Oceans, is a renewed commitment to marine conservation targets, and planning to ensure we can achieve those targets. The targets committed to are 5% of Canada's marine area protected by 2017 and 10% by 2020. Less than 1% is currently protected nationally, and about 0.6% is currently protected in Maritimes Region. • It was made clear that these percentage targets are national targets. While that means that we don't necessarily have to meet those targets within our region, we expect to contribute significantly toward those goals. • It was noted that not just MPAs, but also other types of conservations areas, like Sensitive Benthic Areas (SBAs), are expected to count towards those targets. • There was a discussion on what types of activities can and can't be permitted in an MPA. Marty noted that it can vary, and depends on what the particular qualities or features are that we are trying to protect in a particular area. • It was noted that, to date, DFO hasn't been providing compensation to fishers, either in terms of money or access to additional areas, when protected areas are created. For Action: • Marty to provide documents with more details on the coastal ecologically and biologically significant areas (EBSAs) in our region for circulation to this group.	
6.	**Discussion of other (regional) management measures for 2016**	Lead: Laura Hussey-Bondt
	Highlights/Outcome: • The strong message from DFO Science that we need to be able to better monitor what is being caught in all mackerel fisheries was highlighted. Having a better idea of total catch will help us to establish a more accurate picture of stock status. The 800t TAC recommendation from the last assessment is understood to be in part a result of very incomplete catch information, which is likely causing us to underestimate the productivity of the stock. It will be important to think about what measures we could put in place in our region's fisheries to improve this. • Some more recent management changes were noted, including the change in minimum size to 26.3cm from 25cm (to better reflect current length at 50% maturity) that took effect in 2014, and the implementation of the delinquent logs approach (i.e. if you haven't submitted the required fishing logs for the previous year, you won't receive your licence conditions for the current year) for the herring/mackerel personal bait licences in 2015. • A representative for the St. Margaret's Bay trapnet fishery noted that the increase in the minimum size for mackerel has had a significant impact on them. They are seeing a lot of small fish, and some catches they would have been able to keep under the previous minimum size they now can't. It was questioned whether we shouldn't be doing more to protect the large spawners rather than the small fish. • Some questions were raised regarding appropriate reporting practices for those who hold both a commercial mackerel licence and a personal bait licence. It was noted that if you catch your bait while fishing under the authority of your commercial licence, and you report all that catch on your commercial log, you would need to submit a nil report for your herring/mackerel personal bait licence to confirm that no additional fish was caught (other	

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	than was has already been reported on your commercial log) under the authority of that licence. All fish caught should be reported and accounted for, but don't report the same fish twice on both your commercial log and your bait log (report it on one or the other, as appropriate). And don't assume that because you submitted a record of all your catch on your commercial logbook that you don't need to submit any record for your bait licence (would still require a nil report to confirm you have no additional catches to report). • One licence holder noted that it would be helpful if maps could be provided along with Variation Orders that are issued, to make it clearer which areas they apply to. • It was also noted that a proposal for a regulatory change is being pursued by DFO that would add a season and a bag limit for the recreational mackerel fishery (Atlantic-wide). This would require consultations, and might take a year or two to implement, but would provide a limit where there is currently none, and would also provide a mechanism to further limit or even close the recreational fishery (via Variation Order) if required. • A DFO C&P representative noted that a bag limit of 20 was put in place in the recreational gaspereau fishery, and that was felt to be an appropriate limit and one that was beneficial for the proper control and management of that fishery. • It was noted, however, that because there is no licence currently required for the recreational mackerel fishery, these regulatory changes would not change the fact that there is still no reporting on catches in this fishery. • It was questioned whether some form of survey could potentially provide information on catches of mackerel in the recreational fishery. It was also suggested that there might be a role that Harbour Authorities could play here, since much of this fishing takes place off of wharves. • To improve monitoring and reporting on the mackerel fishery, Laura proposed the possibility of requiring hailing out and in on a trip by trip basis. This would enable us to have more up to date information on landings of mackerel through the season, and would also make it possible for C&P to do some spot checks on landings from time to time, and/or possibly allow for some level of dockside monitoring of catches now or in the future. That could give us higher confidence in the landings amounts that are being reported, and also provide an opportunity to monitor things like fish size. • It was indicated by a representative for the St. Margaret's Bay trapnet fishery that it would not be practical for a trapnet fisher to hail every time they wanted to check their trap. • Laura noted that perhaps in the trapnet fishery it would be some form of "intent to harvest" hail, as is done for the tuna trapnet fishery, rather than hailing out anytime you wanted to go check your trap. • Another fishing industry representative indicated that some fishers at some times might go out 2 or 3 times a day, and indicated that having to hail each time would be burdensome. It was also indicated that C&P does do checks as it is, and that the current system seems to work fine. • Another fishing industry representative suggested that we don't want to go too far too soon. There have already been some changes happening in the mackerel fishery (to the minimum size, reporting requirements in the bait fishery, etc.), and we don't want to overwhelm people. • Laura indicated that while we may not go this route this year, everyone should give some thought to what might be the best approaches to achieve better catch monitoring in the mackerel fisheries, as additional steps may be required in the future. • Laura raised the question of fishing mackerel for personal bait using handline. Currently, the personal bait licences are for using gillnet only, though there's been interest expressed in being able to fish bait using handline. Laura indicated that she's had internal discussions with DFO Science and C&P, and that this is a change we are willing to pursue. However,

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	given the critical status of the stock, we don't want to make changes that will result in increased gear and effort in the fishery, so we need to consider how best to go about this. • One option would be that you would have to choose between having gillnet or handline as the gear type on your bait licence, not being able to fish both gear types at once. An industry representative indicated that you need gillnet to catch herring and hook and line to catch mackerel, so if you have to choose you'd only be able to target one species. • Laura also raised the issue of the use of automated jiggers in the mackerel fishery. She noted that fishers have been permitted to use automated jiggers when they hold a handline licence for mackerel, but that the authorizations associated with use of automated jiggers require clarification. She proposed that permission to use automated jiggers should be made explicit on the licence (or in the conditions). She also indicated that a limit on the number of lines that may be fished at one time should be added. She noted for comparison and consideration that the limit on the number of lines that may be used with an automated jigger in the groundfish fishery is 4. • There was some confusion noted by fishing industry representatives on what the current gear restrictions were in commercial and bait fisheries for mackerel (e.g. some thought you could already fish your bait using handline, some thought that use of automated jiggers was prohibited, there was confusion over whether there was already a limit on how many hooks you could use and what that limit was, etc.). Laura indicated that she would provide some written clarification to the group that would summarize the current rules. For Action: • Laura to provide in writing some clearer direction to this group on logbook reporting requirements where there is some confusion on reporting catch on the commercial logbook vs. the bait logbook (see above). • Laura to circulate the map of Mackerel Fishing Areas from the Atlantic Fishery Regulations to this group for reference, to make clearer which areas Variation Orders apply to. • Laura to provide written clarification to the group on what the current limits and requirements are on what gear can be used in both commercial and bait fisheries for mackerel. Additionally, Laura to propose to the group for comment possible changes going forward regarding gear (e.g. use of handline on a bait licence, use of autojiggers in both the commercial and bait fishery, limits on the number of lines that may be fished at once and the number of hooks that can be used in both the commercial and bait fishery).	
7.	**Safety at sea**	Lead: Laura Hussey-Bondt
	Highlights/Outcome: • DFO has recently put a renewed focus on safety at sea. We are working with industry, the province of NS, and other partners to advance safety issues in the fishery. • This will be a standing agenda item to provide an opportunity for meeting participants to raise any issues related to safety, suggest any ways we might better take safety considerations into account in the ways we manage the mackerel fisheries, suggest presenters or presentation topics related to safety, etc. • There is a working group as part of the Fishing Safety Now initiative (a link to this website was provided prior to the meeting - http://www.workplacesafetystrategy.ca/Home/Fishing-Safety) that may provide materials from time to time to support discussion on this topic. • The purpose today is to introduce this topic, and provide an opportunity for any comments or suggestions anyone might have. • No comments were made. For Action: • All Advisory Committee participants to advise Laura Hussey-Bondt if you would like to	

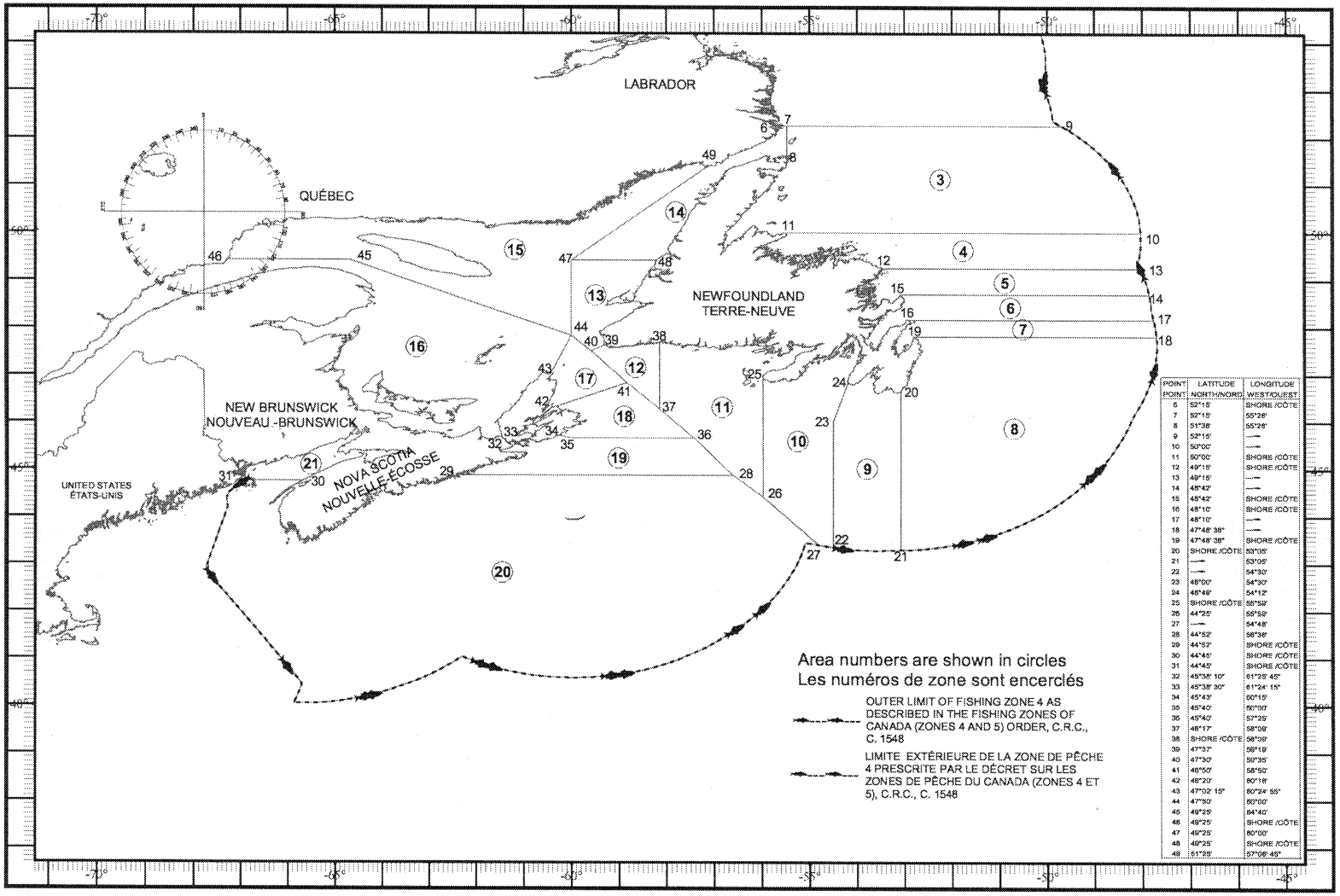
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	present, suggest presenters, or propose topics for future meetings related to safety in the fishery.	
8.	**North of Smokey Fishermen's Association proposal**	Lead: [redacted]
	Highlights/Outcome: [redacted] • Laura indicated that NOSFA had submitted their proposal to the Regional Director General of the Maritimes Region, and so an official response from that office would be forthcoming. • No comments on this proposal were provided by other meeting participants. For Action: • A response from DFO to be provided to NOSFA on their proposal.	
9.	**Other**	
	• It was requested by one meeting participant that it should be noted in the meeting minutes that there had been some difficulties with hearing the discussion for those participating remotely by phone. It was also requested that the draft meeting minutes be circulated to participants in the meeting for review first, to ensure it accurately reflected their understanding of the discussion, prior to being circulated to the broader advisory committee list. Laura agreed to this. For Action: • Laura to note phone difficulties in this meeting, and circulate draft meeting minutes to participants for review prior to broader circulation to the group.	

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PART II/PARTIE II

MACKEREL FISHING AREAS/ZONES DE PÊCHE DU MAQUEREAU



POINT	LATITUDE NORTH/NORD	LONGITUDE WEST/OUEST
6	52°15'	SHORE /CÔTE
7	52°15'	55°26'
8	51°38'	55°26'
9	52°15'	——
10	50°00'	——
11	50°00'	SHORE /CÔTE
12	49°15'	SHORE /CÔTE
13	49°15'	——
14	48°42'	——
15	48°42'	SHORE /CÔTE
16	48°10'	SHORE /CÔTE
17	48°10'	——
18	47°48' 36"	——
19	47°48' 36"	SHORE /CÔTE
20	SHORE /CÔTE	53°05'
21	——	53°05'
22	——	54°30'
23	48°00'	54°30'
24	48°48'	54°12'
25	SHORE /CÔTE	55°59'
26	44°25'	55°59'
27	——	54°48'
28	44°52'	58°38'
29	44°52'	SHORE /CÔTE
30	44°45'	SHORE /CÔTE
31	44°45'	SHORE /CÔTE
32	45°35' 10"	61°25' 45"
33	45°38' 30"	61°24' 15"
34	45°43'	60°15'
35	45°40'	60°00'
36	45°40'	57°25'
37	46°17'	58°08'
38	SHORE /CÔTE	58°08'
39	47°37'	59°19'
40	47°30'	59°35'
41	46°50'	58°50'
42	46°20'	60°18'
43	47°02' 15"	60°24' 55"
44	47°50'	60°00'
45	48°29'	64°40'
46	48°25'	SHORE /CÔTE
47	48°25'	60°00'
48	48°25'	SHORE /CÔTE
49	51°28'	57°06' 45"

HORIZONTAL DATUM: North American Datum 1927 (NAD 27).

SYSTÈME GÉODÉSIQUE : Système de référence géodésique de l'Amérique du Nord 1927 (NAD 27).

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Terms of Reference
Maritime Mackerel Advisory Committee
Draft
March 2017

Purpose

The purpose of the Maritime Mackerel Advisory Committee is to provide advice and recommendations to the Department of Fisheries and Oceans on the conservation, protection and management of the Atlantic mackerel fishery in the Maritimes Region and to feed into the Atlantic Mackerel Advisory Committee process . Membership for the Atlantic Mackerel Advisory Committee is drawn from regional committees. Advice from the various Regional Advisory Committees will be consolidated by the Atlantic Mackerel Advisory Committee.

Scope

The Maritime Mackerel Advisory Committee will provide advice on the development of fishing plans, regulatory measures, fishing seasons, licensing policies, size limitations, by-catch provisions, gear restrictions and ecosystem issues specific to the Maritimes Region and other aspects of the Integrated Fisheries Management Plans (IFMPs) that may arise. In addition, the committee may provide advice and recommendations regarding resolution of ongoing fishery management issues.

The Maritime Mackerel Advisory Committee gives consideration to biological, marketing and other information as it may affect the management of the mackerel resource. The Committee can discuss and promote scientific research to address concerns of the fishery and fishing industry.

The Committee provides a forum for information sharing on issues related to management of the mackerel fishery.

Atlantic wide TAC recommendations are consulted on at Atlantic Mackerel Advisory Committee in addition to issues and management decisions that impact the Atlantic wide fishery.

Operating Principles / Terms and Conditions

All members will act with respect, honesty, integrity, and openness in advancing the Atlantic Mackerel Fishery and management in the Maritimes Region. The committee will work collaboratively, with patience and discipline. To the extent possible we work together to satisfy the interests of all members. Each member should have the opportunity to express their opinion, be listened to, and accept a group conclusion that considers all relevant factors. It is not necessarily the optimal decision for each member.

Terms of Reference will be reviewed as required or every 3-4 years.

Administration

<u>Structure</u>

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Any changes to the structure and administration of the Committee will be decided by the Committee membership, as determined by the most recently updated membership list available.

Sub-Committees

Ad hoc committees/working groups can be established to review and assess specific policy options and management measures.

Meetings

Meetings can be held throughout the Maritimes Region. When feasible, meetings will be held at times and places convenient to the membership.

Meetings will aim to be held once per calendar year. Additional meetings may be held if required.

Attendance

If a member cannot attend, an alternate may be nominated and the Chairperson notified as far in advance of the meeting date as possible.

Expenses

Members do not receive funding for expenses incurred when attending meetings.

Record of Discussion

A Record of Discussion will be prepared and distributed by DFO in a timely manner and where possible within 3 weeks of the meeting. First draft review of Records of discussion is the privilege of Committee members in attendance, prior to public release/review of minutes in draft form.

The record will provide sufficient detail to effectively summarize group discussion under key agenda items. Key considerations raised during the meeting will be noted so that members can track, convey and follow up on those issues. When conclusions are reached they will be noted. Areas for further action will also be noted, along with assignment of responsibility and other key information. Records of discussion will not include attribution of comments or quotes unless a member specifically requests that their view be noted in the minutes.

Records of Discussion are public information and may be distributed by request once finalized by the committee.

Provision of Advice / Recommendations

No formal voting procedures will be established. The Maritime Mackerel Advisory Committee will seek to operate on a consensus basis. Where no consensus is possible, the majority opinion will be noted as well as outstanding objections

Public Access

Unless a majority of Maritime Mackerel Advisory Committee members say otherwise before a meeting starts, and have justification for doing so, the meetings and proceedings of this advisory committee are open to public and media scrutiny. However, no electronic recording devices are permitted without the express permission, on a case-by-case basis, of the members and of the Chairperson.

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Membership

The Maritime Mackerel Advisory Committee will be chaired by a DFO official. An industry co-chair may be appointed at the discretion of the Committee members.

The composition of the Maritime Mackerel Advisory Committee membership shall reflect the structure and nature of the Maritimes Atlantic Mackerel fisheries. In addition to DFO staff, the membership may include representatives of the following Maritimes based groups where related to the mackerel fisheries:

- licence holders' associations for all the relevant gear sectors,
- Aboriginal groups, in addition to representation they may receive via their commercial licence associations,
- processors or other industries related to the Atlantic Mackerel fisheries, and
- provincial government fisheries departments/branches (Nova Scotia and New Brunswick).
- Regional ENGOs

When required, experts, academics or other representatives may be invited to attend meetings as presenters, advisers or observers because of their knowledge of the subject, of the sector or as part of another consultation mechanism.

- Detail the composition of the Committee; what sectors/bodies will be represented and in what number

- If there is an appointment process for members, detail the nature and process of appointment, length of tenure, etc.

- Who is membership of the group open to? Are any representatives from other organizations included?

- Are there any restrictions on numbers?

- How long is the period of membership and can it be extended?

Definition of Terms

- Provide definitions of any key terms.

DRAFT

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Waters, Christa

From: Lester, Brian
Sent: March-03-17 11:02 AM
To: Mallet, Pierre; Rivierre, Antoine; Cawthray, Jenness; Doniol-Valcroze, Thomas; Castonguay, Martin; Dunne, Erin; Waters, Christa
Subject: RE: MECTS-#3745265-v1-_AMAC_Agenda_2017.doc

Yes we should make sure we have an agenda item to discuss the proposed Marine Recreational Licence and the proposed change in the regs to add a season and bag limits.

From: Mallet, Pierre
Sent: 2017–March-03 7:17 AM
To: Rivierre, Antoine; Cawthray, Jenness; Doniol-Valcroze, Thomas; Castonguay, Martin; Dunne, Erin; Waters, Christa
Cc: Lester, Brian
Subject: RE: MECTS-#3745265-v1-_AMAC_Agenda_2017.doc

Good morning,

I agree with Antoine, the new proposed mgt measures for the rec. fishery should be address.
Thanks

From: Rivierre, Antoine
Sent: March-02-17 5:24 PM
To: Cawthray, Jenness; Doniol-Valcroze, Thomas; Mallet, Pierre; Castonguay, Martin; Dunne, Erin; Waters, Christa
Cc: Lester, Brian
Subject: RE: MECTS-#3745265-v1-_AMAC_Agenda_2017.doc

Bonjour Jenness.

Should the subject of **recreational fishing** be discussed at the advisory committee ? (I added Brian for his opinion)
I am thinking of subjects such as regulatory changes, the issue of minimum size or a daily catch limit.
Attached is a request received (only in French) on this subject.

Antoine

De : Cawthray, Jenness
Envoyé : March-02-17 3:25 PM
À : Rivierre, Antoine; Doniol-Valcroze, Thomas; Mallet, Pierre; Castonguay, Martin; Dunne, Erin; Waters, Christa
Objet : MECTS-#3745265-v1-_AMAC_Agenda_2017.doc
Importance : Haute

Hello Everyone,
Can you please take a look at the attached agenda and let me know if you have any additions or deletions.
If you could respond by tomorrow morning it would be appreciated so that we can finalize and circulate to AMAC.
Much appreciated.
Thanks!

Jenness Cawthray
Senior Fisheries and Aquaculture Management Officer |

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Agent principal, Gestion des pêches et de l'aquaculture
Fisheries and Oceans | Pêches et océans
200 rue Kent Street - 13S013 Ottawa, ON, K1A 0E6
Jenness.Cawthray@dfo-mpo.gc.ca
Telephone | Téléphone (613) 998-1524
Facsimile | Télécopieur (613) 990-7051
Government of Canada | Gouvernement du Canada

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Waters, Christa

From: Waters, Christa
Sent: March-03-17 8:44 AM
To: Cawthray, Jenness
Subject: MECTS-#3745265-v1-_AMAC_Agenda_2017.doc
Attachments: MECTS-#3745265-v1-_AMAC_Agenda_2017.doc

Hello Jenness,
Please find attached some suggestions. Take them or leave them as you wish.
Christa

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ATLANTIC MACKEREL ADVISORY COMMITTEE
AGENDA

Hotel
Halifax, Nova Scotia
March 30, 2017 (9:00am – 4:00pm)

	ITEM
1	Opening Remarks Chair – Brian Lester
2	Science Presentation Science - Stock Assessment - Joint Assessment with U.S.
3	Management Considerations - Perhaps at the beginning a short discussion on the management objectives for the mackerel fisheries – i.e. rebuilding and improvement of data collection (to give some context to the specific items below). - Total Allowable Catch for 2017-18 - Monitoring Improvements of Commercial and Bait Fisheries - Licencing/ Access - Minimum size - Other
4	Precautionary Approach Framework / Rebuilding Plan - Response to CESD Audit - Working Group
	Next Steps - Next meeting

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Comment [D1]: Is there a name of the working group? Is it one that is already established? Sorry – I have been out of the loop for a couple of years, so I am not sure what this means. I am guessing that some of the other participants may not know either?

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No information has been removed or severed from this page

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Patterson, Pauline

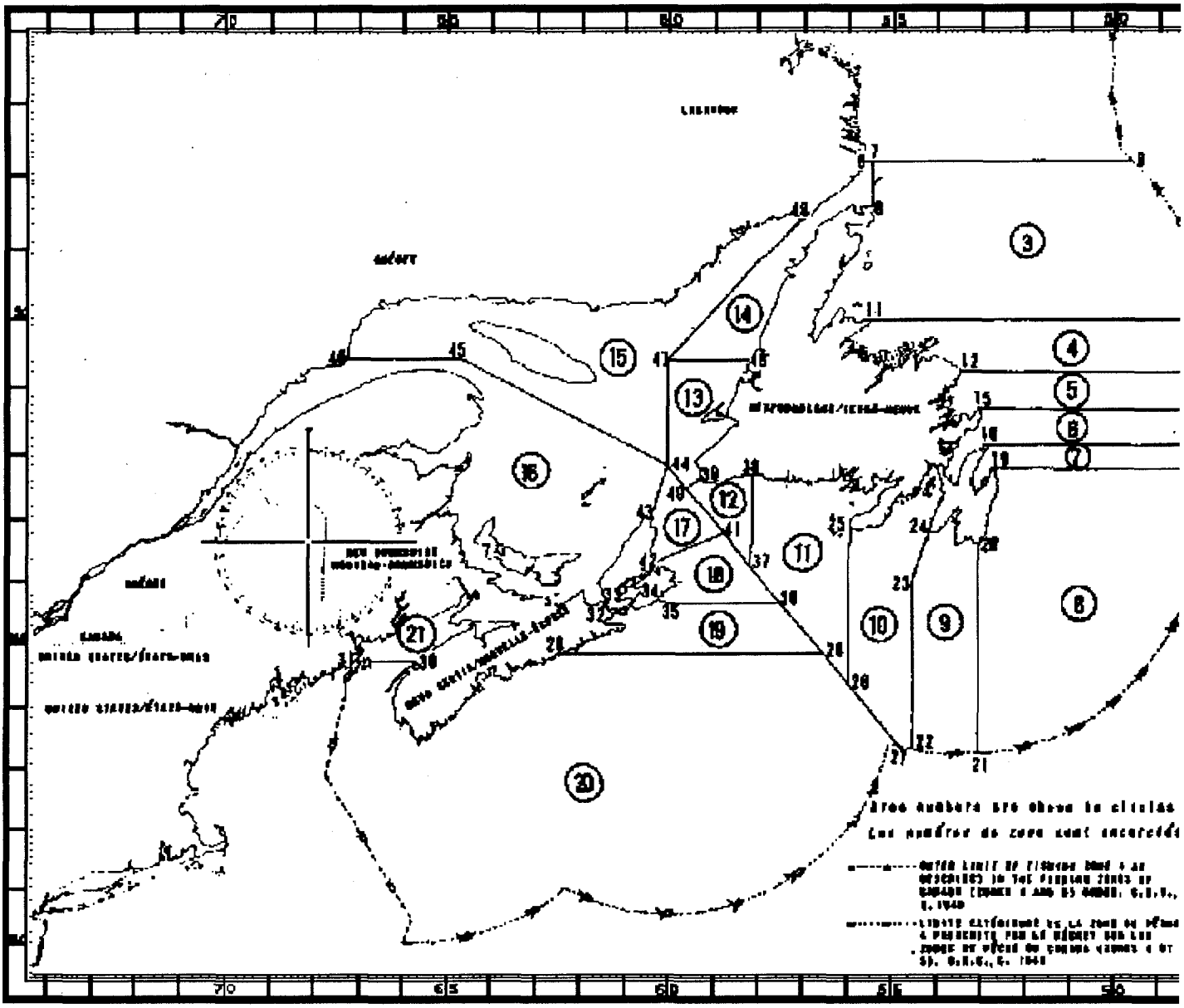
De: Rivierre, Antoine
Envoyé: March-06-17 12:21 PM
À: Castonguay, Martin
Cc: Doniol-Valcroze, Thomas; Légaré, Benoît
Objet: RE: longueur minimale autorisée pour le maquereau
Pièces jointes: Mackerel Decision Posting for our website. ; 2014-046.doc; 2014Q068.doc

Bonjour Martin,
Selon Yves Richard, « *Dès que les ordonnances ont été signées par les DGR et diffusées, la nouvelle taille pour le maquereau s'appliquait tant aux pêcheurs commerciaux qu'aux récréatifs.* »

Les ordonnances que j'ai retracées (pièces jointes) concernent uniquement les **zones 15 et 16** ce qui exclurait l'ouest de Terre-Neuve (zone 13 et 14)

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MACKEREL FISHING AREAS / ZONES DE PÊCHE DU MAQUEREAU



DORS/87-468, art. 16; DORS/94-45, art. 7.

Pour Terre-Neuve, je n'ai pas d'ordonnance, mais j'ai retrouvé le message en pièce jointe de l'administration centrale qui mentionne le changement de taille minimale pour **les zones 3 et 4 de l'OPANO**

J'espère que le tout répond à vos attentes

Antoine

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De : Castonguay, Martin
Envoyé : March-06-17 10:47 AM
À : Rivierre, Antoine
Cc : Doniol-Valcroze, Thomas; Légaré, Benoît
Objet : RE: longueur minimale autorisée pour le maquereau

Antoine,

Peux-tu me confirmer que cette hausse de taille minimale a été appliquée dans toutes les régions du MPO dès 2014?

Merci,

Martin

De : Doniol-Valcroze, Thomas
Envoyé : 6 mars 2017 10:45
À : Légaré, Benoît; Castonguay, Martin
Objet : RE: longueur minimale autorisée pour le maquereau

Merci, Benoît.

De : Légaré, Benoît
Envoyé : 6 mars 2017 10:10
À : Doniol-Valcroze, Thomas; Castonguay, Martin
Objet : TR: longueur minimale autorisée pour le maquereau

Pour info.
Benoît

De : Rivierre, Antoine
Envoyé : 6 mars 2017 10:06
À : Légaré, Benoît
Objet : RE: longueur minimale autorisée pour le maquereau

Bonjour Benoît

Les ordonnances de modification du règlement de pêche ont été émises le

- 27 mai 2014 pour la zone 16
- 29 mai 2014 pour la zone 15

La modification de la longueur minimale pour le maquereau était en vigueur à partir de cette date.

Merci

Antoine Rivierre

Conseiller principal p. i.,
Espèces pélagiques, mammifères marins
Gestion de la ressource et des affaires autochtones / Pêches et Océans Canada / Gouvernement du Canada
Antoine.rivierre@dfo-mpo.gc.ca / Tél. : 418.640.2636

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Senior Advisor a. i.,
Pelagic species, Marine Mammals
Resource Management and Aboriginal Affairs / Fisheries and Oceans Canada / Government of Canada
Antoine.rivierre@dfo-mpo.gc.ca / Tél. : 418.640.2636

Government of Canada Gouvernement du Canada

Canada

De : Légaré, Benoît
Envoyé : March-06-17 9:57 AM
À : Rivierre, Antoine
Objet : longueur minimale autorisée pour le maquereau

Bonjour Antoine,
Pourrais-tu SVP me confirmer quand exactement a été mise en place la longueur minimale autorisée de capture du maquereau à 263 mm ? La recommandation de passer de 250 mm à 263 mm a été faite lors de la dernière revue en 2014. Est-ce que cette recommandation a été mise en application dès la pêche de 2014 ?
Merci

Benoît Légaré, biologiste
Pêches et Océans Canada
Direction Régionale des Sciences
Direction des sciences pélagiques et écosystémiques
Institut Maurice Lamontagne
850 route de la mer
Mont-Joli, QC
CANADA
G5H 3Z4
Tél: (418)775-0683
Fax: **(418)775-0740** ou (418)775-0546
courriel: benoit.legare@dfo-mpo.gc.ca

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Patterson, Pauline

De: Rivierre, Antoine
Envoyé: March-06-17 1:01 PM
À: olivier.paquet@mapaq.gouv.qc.ca; vincent.moffet@mapaq.gouv.qc.ca
Objet: TR: Évalution du maquereau - ordre du jour de la rencontre 8 et 9 mars / Mackerel stock assessment - agenda for March 8-9.
Pièces jointes: Mackerel RAP Agenda.docx; Ordre du jour.docx

Pour votre information.

Antoine

De : Castonguay, Martin
Envoyé : March-06-17 12:47 PM
À : kiersten.curti@noaa.gov; Dave Secor; Cawthray, Jenness; Lester, Brian; Rivierre, Antoine
Cc : Cyr, Charley; Doniol-Valcroze, Thomas
Objet : TR: Évalution du maquereau - ordre du jour de la rencontre 8 et 9 mars / Mackerel stock assessment - agenda for March 8-9.

See below. Voir au bas.

Martin

De : Cyr, Charley
Envoyé : 6 mars 2017 11:22
À : Lola Coussau; Regroupement des Pêcheurs Professionnels du Sud de la Gaspésie; Safouane.Khamassi@uqar.ca; Melanie Giffin; Robert MacMillan; Marentette, Julie; Dunne, Erin; Dominique Robert; Jason Spingle; David MacEwen; Ferguson, Louis (DAAF/MAAP) (Louis.Ferguson@gnb.ca); Samir Benchamane; Erin Carruthers (ECarruthers@ffaw.net)
Cc : Castonguay, Martin; Doniol-Valcroze, Thomas
Objet : Évalution du maquereau - ordre du jour de la rencontre 8 et 9 mars / Mackerel stock assessment - agenda for March 8-9.

Bonjour,

Vous trouverez ci-joint l'ordre du jour de la réunion sur le maquereau prévue les 8 et 9 mars.

Hi,

Please find enclosed the agenda for the Mackerel meeting planned for March 8-9.

Charley Cyr

Directeur, Avis, Informations et soutien scientifiques
Direction régionale des Sciences
Pêches et Océans Canada / Gouvernement du Canada
charley.cyr@dfo-mpo.gc.ca / Tél.: 418-775-0825

Director, Scientific Advices, Informations and Support
Science Regional Branch

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Fisheries and Oceans Canada / Government of Canada
Charley.cyr@dfo-mpo.gc.ca / Tel.: 418-775-0825

Ma langue. une question de My language. a matter of respect

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Agenda

Assessment of Atlantic mackerel in subareas 3-4

Regional Assessment Process –Québec Region

March 8-9, 2017
Mont-Joli (Québec)

Chair : [redacted]

Day 1 - Wednesday, March 8, 2017

9h00	Welcome, objectives, terms of reference, and agenda	[redacted]
9h15	Introduction : description of stock structure	Martin Castonguay
9h45	Introduction : main issues and environmental relationships	T. Doniol-Valcroze
10h15	*Pause*	
10h30	Commercial data update 2013-2016	T. Doniol-Valcroze
11h15	Biological data update 2013-2016	T. Doniol-Valcroze
12h00	*Lunch*	
13h00	Egg index update 2013-2016	T. Doniol-Valcroze
14h00	New US egg index	[redacted]
14h30	*Pause*	
14h45	Data on non-declared catches	T. Doniol-Valcroze
15h30	Description of new modeling framework	T. Doniol-Valcroze
16h30	End of Day 1	

Day 2 – March 9, 2017

9h00	Welcome and agenda	[redacted]
9h15	Model update including new data	T. Doniol-Valcroze
10h15	*Pause*	
10h30	Discussion on model and stock status	All
11h00	*Pause for seminar and lunch*	
13h00	Reference points, projections (F scenarios)	T. Doniol-Valcroze
14h00	Other issues : • Subareas 3-6 model • Interim years • Minimum size requirement	T. Doniol-Valcroze
14h45	*Pause*	
15h00	Summary of Science Advice Report	All
16h30	End of Day 2	

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s.19(1)

Ordre du jour

Évaluation du maquereau bleu des sous-régions 3-4

Examen par des pairs régional – région du Québec

Les 8 et 9 mars 2017
Mont-Joli (Québec)

Président : [redacted]

Jour 1 - mercredi, le 8 mars 2017

9h00	Mot de bienvenue, objectifs, cadre de référence et ordre du jour	[redacted]
9h15	Introduction : description de la structure du stock	Martin Castonguay
9h45	Introduction : problématiques principales et relations avec l'environnement	T. Doniol-Valcroze
10h15	*Pause*	
10h30	Mise à jour des données de la pêche commerciale 2013-2016	T. Doniol-Valcroze
11h15	Mise à jour des données biologiques 2013-2016	T. Doniol-Valcroze
12h00	*Diner*	
13h00	Mise à jour de l'indice des œufs 2013-2016	T. Doniol-Valcroze
14h00	Nouvel indice des œufs utilisé par les États-Unis	[redacted]
14h30	*Pause*	
14h45	Données sur les prises non-déclarées	T. Doniol-Valcroze
15h30	Description du nouveau cadre de modélisation	T. Doniol-Valcroze
16h30	Fin du jour 1	

Jour 2 - jeudi, le 9 mars 2017

9h00	Mot de bienvenue et ordre du jour	[redacted]
9h15	Mise à jour du modèle avec les nouvelles données	T. Doniol-Valcroze
10h15	*Pause*	
10h30	Discussion sur le modèle et l'état du stock	Tous
11h00	*Pause pour séminaire et dîner*	
13h00	Points de référence, projections (scénarios de F)	T. Doniol-Valcroze
14h00	Autres points : • Modèle des zones 3 à 6 • Années intérimaires • Exigence de taille minimale	T. Doniol-Valcroze
14h45	*Pause*	
15h00	Élaboration de l'avis scientifique	Tous
16h30	Fin du jour 2	

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Cormier, Mélanie

De: Doniol-Valcroze, Thomas
Envoyé: 6 mars 2017 09:04
À: Cawthray, Jenness; Rivierre, Antoine; Mallet, Pierre; Dunne, Erin; Waters, Christa; Gaudet, Mario; Thomas, Tashina
Cc: Lester, Brian
Objet: RE: AMAC_Agenda.doc

I think we can squeeze the science part in one hour, but I do expect there will be more questions than in previous years because of the fishery closure last year and because of the changes we are bringing to the assessment.

Thomas

De : Cawthray, Jenness
Envoyé : 6 mars 2017 09:03
À : Rivierre, Antoine; Mallet, Pierre; Dunne, Erin; Waters, Christa; Gaudet, Mario; Thomas, Tashina; Doniol-Valcroze, Thomas
Cc : Lester, Brian
Objet : AMAC_Agenda.doc
Importance : Haute

Hi Everyone,
The agenda for AMAC is complete. Science can you please let me know if I allocated enough time for your presentations or do you require more time.
Note that under the other category daily trip limits and MSC will be discussed.
Please provide comments this morning if possible as I will be sending it out today. I will schedule a teleconference next week to discuss the agenda items and next steps for the upcoming AMAC meeting.
Thanks!
Jenness

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Cormier, Mélanie

De: Cyr, Charley
Envoyé: 6 mars 2017 09:07
À: XLAU, DRS/DAISS; XLAU, DRS/DSDB; XLAU, DRS/DSPE
Cc: Doniol-Valcroze, Thomas; Castonguay, Martin; Gilbert, Michel; de Lafontaine, Yves; Racine, Sylvi; Rivierre, Antoine
Objet: RE: Évaluation du stock de maquereau (8 et 9 mars)
Pièces jointes: Ordre du jour.docx

Bonjour,

Voici l'ordre du jour de la revue sur l'évaluation du stock de maquereau prévue cette semaine.

Les autres documents pour la revue seront déposés sur le répertoire suivant lorsque disponibles : S:\Bureau régional des avis scientifiques\Évaluation de Stock\Évaluation des stocks 2017\Maquereau

Charley Cyr
Directeur
DAISS
(418) 775-0825
Charley.Cyr@dfo-mpo.gc.ca

De : Cyr, Charley
Envoyé : 3 mars 2017 08:59
À : XLAU, DRS/DAISS; XLAU, DRS/DSDB; XLAU, DRS/DSPE
Cc : Doniol-Valcroze, Thomas; Castonguay, Martin; Gilbert, Michel; de Lafontaine, Yves; Racine, Sylvi
Objet : Évaluation du stock de maquereau (8 et 9 mars)

Bonjour,

Vous êtes invités à participer à la **revue par des pairs sur l'évaluation des stocks des espèces suivantes :**

Maquereau : 8 et 9 mars

La revue débutera à **9h et aura lieu à la salle A582**.

Le cadre de référence pour les revues sont disponibles sur le site web du SCCS à l'adresse suivante : http://www.isdm-gdsi.gc.ca/csas-sccs/applications/events-evenements/result-fra.asp?curr=month

Je vous rappelle que l'objectif de ces revues est de revoir l'information dont dispose le ministère afin de fournir un avis à la gestion des pêches. Je vous rappelle également qu'il s'agit d'une réunion scientifique **et non d'une réunion de consultation ou d'information**. Tous ceux qui prennent part à la réunion doivent participer et contribuer à l'exercice d'examen par les pairs.

Bonne journée!

Charley Cyr

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Directeur, Avis, Informations et soutien scientifiques
Direction régionale des Sciences
Pêches et Océans Canada / Gouvernement du Canada
charley.cyr@dfo-mpo.gc.ca / Tél.: 418-775-0825

Director, Scientific Advices, Informations and Support
Science Regional Branch
Fisheries and Oceans Canada / Government of Canada
Charley.cyr@dfo-mpo.gc.ca / Tel.: 418-775-0825

Ma langue, une question de respect
My language, a matter of respect

Page 706

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page 702

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Cormier, Mélanie

De: Boudreau, Suzie
Envoyé: 6 mars 2017 16:32
À: Rivierre, Antoine
Objet: TR: Atlantic Mackerel Advisory Committee / Comité consultatif du maquereau de l'Atlantique
Pièces jointes: AMAC_Agenda.pdf; AMAC_Invitation_2017.pdf

Probablement que tu l'as déjà reçu.
Suzie

De : Browne, Ryan
Envoyé : 6 mars 2017 15:24
Objet : Atlantic Mackerel Advisory Committee / Comité consultatif du maquereau de l'Atlantique

SENT ON BEHALF OF BRIAN LESTER, CHAIR, ATLANTIC MACKEREL ADVISORY COMMITTEE (AMAC)
ENVOYÉ DE LA PART DE BRIAN LESTER, PRÉSIDENT, COMITÉ CONSULTATIF DE MAQUEREAU ATLANTIQUE (CCMA)

Hello All,

Attached please find the agenda as well as a copy of the previously sent invitation for the Atlantic Mackerel Advisory Committee meeting, taking place Thursday, March 30, 2017 in Halifax at the Delta Halifax Hotel, 1990 Barrington Street, Scotia Square, Halifax, NS. (902) 425-6700).

Please note that there are rooms blocked at the hotel until March 14th should you require accommodation.

Bonjour à tous,
Veuillez trouver ci-joint l'ordre du jour ainsi que l'invitation originale pour la réunion du Comité consultatif de maquereau de l'Atlantique qui aura lieu le 30 mars à l'hôtel Delta Halifax, 1990 rue Barrington, Scotia Square, Halifax, N-E (902) 425-6700.

Veuillez noter qu'il y a des chambres réservées à l'hôtel d'ici le 14 mars si vous avez besoin du logement.

Thank you,
Merci,

Ryan Browne

Administrative Assistant, Resource Management
Fisheries and Oceans Canada / Government of Canada
ryan.browne@dfo-mpo.gc.ca / Tel: 613-991-1833

Adjoint Administratif, Gestion intégrée des ressources
Pêches et Océans Canada / Gouvernement du Canada
ryan.browne@dfo-mpo.gc.ca / Tél. : 613-991-1833

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ATLANTIC MACKEREL ADVISORY COMMITTEE
AGENDA
Delta Halifax, 1990 Barrington Street
Halifax, Nova Scotia
March 30, 2017 (9:00am – 4:00pm)

March 30 , 2017		
9:00	Welcome and Opening Remarks/Roundtable	15 min.
9:15	Safety At Sea Marine Protected Areas	20 min.
9:35	Science Presentation • Results of a poll sent to harvesters on unreported catches • Stock Assessment • Collaboration with US on stock assessments	60 min.
10:35	**Coffee Break**	15 min.
10:50	Questions and Answers	20 min.
11:10	Management Considerations • Total Allowable Catch for 2017-18 • Monitoring of Commercial and Bait Fisheries	50 min.
12:00	**Lunch Break**	75 min.
13:15	Management Considerations Continued • Licencing/ Access • Minimum size • Marine recreational fishery licence / Other regulatory changes •	75 min.
14:30	**Coffee Break**	**15 min.**
14:45	Management Considerations Continued • Other	30 min.
15:15	• Precautionary Approach Framework / Rebuilding Plan • Response to Commissioner of the Environment and Sustainable Development Audit • Establishment of a Rebuilding Plan Working Group • Integrated Fisheries Management Plan (IFMP) Update	30 min.
15:45	Closing Remarks	15 min.

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Fisheries and Oceans Canada

Pêches et Océans Canada

TO: Atlantic Mackerel Advisory Committee /
AU: Comité consultatif du maquereau de l'Atlantique

Atlantic Mackerel Advisory Committee Meeting Invitation

A meeting of the Atlantic Mackerel Advisory Committee is scheduled for March 30, 2017, at the Delta Halifax, 1990 Barrington Street, Halifax, NS, in the Boardroom Baronet 123. (902-425-6700).

The meeting will begin at 09:00 and conclude at 16:00. A few rooms have been set aside for participants and will be released on March 7, 2017.

An agenda will be provided shortly.

Should you have any questions, please contact Jenness Cawthray (Jenness.Cawthray@dfo-mpo.gc.ca) (613-998-1524).

Invitation à la réunion du Comité consultatif du maquereau de l'Atlantique

Une réunion du Comité consultatif du maquereau de l'Atlantique est prévue pour le 30 mars, 2017 à l'hôtel Delta Halifax, 1990 rue Barrington, Halifax, N-E, dans la salle de conférence Baronet 123 (902-425-6700).

La réunion commencera à 09h00 et se terminera à 16h00. Quelques chambres ont été réservées pour les participants. Vous devez faire vos réservations d'ici au 7 mars pour en profiter du bloc.

Un ordre du jour sera bientôt disponible.

Si vous avez des questions, veuillez contacter Jenness Cawthray (Jenness.Cawthray@dfo-mpo.gc.ca) (613-998-1524).

Brian Lester
Chair/Président
Atlantic Mackerel Advisory Committee/Comité consultatif du maquereau de l'Atlantique

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Cormier, Mélanie

De: Moffet Vincent (DAPPA) (Québec) <vincent.moffet@mapaq.gouv.qc.ca>
Envoyé: 27 mars 2017 10:59
À: Rivierre, Antoine
Cc: Desrosiers Denis (DAPPA) (Québec); Lavoie Christine (DAPPA) (Québec); Massé Nicole (DAPPA) (Québec)
Objet: TR: Atlantic Mackerel Advisory Committee / Comité consultatif du maquereau de l'Atlantique

Bonjour M. Rivierre,

Je vous confirme ma présence à la rencontre du 30 mars.

Bien à vous,

Vincent Moffet, directeur adjoint

Analyses et politiques des pêches et de l'aquaculture
Ministère de l'Agriculture, des Pêcheries et de l'Alimentation du Québec
200, chemin Sainte-Foy, 11e étage, Québec, G1R 4X6
Tél. : 418 380-2100, poste 3586

Agriculture, Pêcheries et Alimentation
Québec

De : Browne, Ryan [mailto:Ryan.Browne@dfo-mpo.gc.ca]
Envoyé : 24 mars 2017 16:45
Objet : Atlantic Mackerel Advisory Committee / Comité consultatif du maquereau de l'Atlantique

SENT ON BEHALF OF BRIAN LESTER, CHAIR, ATLANTIC MACKEREL ADVISORY COMMITTEE (AMAC)
ENVOYÉ DE LA PART DE BRIAN LESTER, PRÉSIDENT, COMITÉ CONSULTATIF DE MAQUEREAU ATLANTIQUE (CCMA)

(Le français suit)

Hello all:

Given it is anticipated that there will be a large number of stakeholders at the Atlantic Mackerel Advisory Committee meeting on March 30th, participation at main table will be limited. In order to facilitate the proceeding for this meeting, we will follow the limits as defined in the Integrated Fisheries Management Plan for Atlantic Mackerel, as per below.

"...To ensure orderly meetings, the number of members per DFO Region who sit at the meeting table is limited to one representative per Aboriginal group or community, three for the inshore fleets, one for the large seiners, and two for the processing industry. In addition, there is one government representative per province. Other interested parties may attend as observers."

Integrated Fisheries Management Plan for Atlantic Mackerel:
http://www.dfo-mpo.gc.ca/fm-gp/peches-fisheries/ifmp-gmp/mackerel-atl-maquereau/mac-atl-maq-2007-eng.htm

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Please identify to your DFO Regional Small Pelagics Advisor, by noon on March 29th, your interest to occupy one of the seats assigned for the Region at the AMAC table.

Christa Waters: Maritimes Region: Christa.Waters@dfo-mpo.gc.ca

Erin Dunn: Newfoundland Region: Erin.Dunne@dfo-mpo.gc.ca

Mario Gaudet: Gulf Region: Mario.Gaudet@dfo-mpo.gc.ca

Antoine Rivierre: Québec Region: Antoine.Rivierre@dfo-mpo.gc.ca

Thank you.

Brian

Bonjour a tous,

Étant donné qu'il est prévu qu'il y aura un grand nombre d'intervenants lors de la réunion du Comité consultatif du maquereau de l'Atlantique le 30 mars, la participation à la table principale sera limitée. Afin de faciliter la procédure de cette réunion, nous suivrons les limites définies dans le Plan de gestion intégrée des pêches du maquereau de l'Atlantique, comme indiqué ci-dessous.

... Afin d'assurer le bon déroulement des réunions, on limite le nombre de membres par Région du MPO qui s'assoient à la table comme suit : un seul représentant par groupe autochtone ou communautaire, trois représentants des flottilles côtières, un représentant des grands senneurs et deux représentants de l'industrie de la transformation. De plus, il y a un représentant de chaque gouvernement provincial. D'autres parties intéressées peuvent assister aux réunions à titre d'observateur.

Plan de gestion intégrée de pêche pour le maquereau de l'Atlantique :
http://www.dfo-mpo.gc.ca/fm-gp/peches-fisheries/ifmp-gmp/mackerel-atl-maquereau/mac-atl-maq-2007-fra.htm

Veuillez indiquer à votre conseiller(e) régional(e) pour les petits poissons pélagiques du MPO, d'ici midi le 29 mars, votre intérêt à occuper l'un des sièges assignés à la région à la table du CCMA.

Christa Waters: Région des Maritimes: Christa.Waters@dfo-mpo.gc.ca

Erin Dunn: Région de Terre-Neuve-et-Labrador: Erin.Dunne@dfo-mpo.gc.ca

Mario Gaudet: Région du Golfe: Mario.Gaudet@dfo-mpo.gc.ca

Antoine Rivierre: Région du Québec: Antoine.Rivierre@dfo-mpo.gc.ca

Je vous remercie.

Brian

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Ryan Browne

Administrative Assistant, Resource Management
Fisheries and Oceans Canada / Government of Canada
ryan.browne@dfo-mpo.gc.ca / Tel: 613-991-1833

Adjoint Administratif, Gestion intégrée des ressources
Pêches et Océans Canada / Gouvernement du Canada
ryan.browne@dfo-mpo.gc.ca / Tél. : 613-991-1833

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Pêches et Océans Canada | Fisheries and Oceans Canada

Direction des sciences
Région du Québec
Direction avis, information et soutien scientifiques

Science Branch
Quebec Region
Scientific advice, Information and Support Branch

Classif. sécurité/Security

NOTE DE SERVICE / MEMORANDUM **Le 6 mars 2017**

À: TO: Michel Gilbert
Directeur
Dir. Sciences pélagiques et écosystémiques

Votre réf./Your ref.

Notre réf./Our ref.

DE: FROM: Charley Cyr
Dir. Avis, information et soutien scientifiques

OBJET: SUBJECT: **Approbation du compte rendu no 2017/xxx** « Compte rendu de l'examen régional par des pairs portant sur la révision du cadre d'évaluation du maquereau bleu des sous-régions 3 et 4; 18-20 janvier 2017»

Le document cité en rubrique sera publié dans la série "Compte rendu" du Secrétariat canadien de consultation scientifique (SCCS).

Ce document vous est donc présenté pour approbation finale avant d'être acheminé au SCCS à Ottawa.

Suivant votre approbation, veuillez retourner la présente à l'expéditeur.

Charley Cyr

p. j. (1)

Approbation :

Date : 6/03/17

Michel Gilbert
Directeur DSPE

Canada

Institut Maurice-Lamontagne / Maurice-Lamontagne Institute
850 route de la Mer, C.P. 1000, Mont-Joli, QC G5H 3Z4

Document available at: http://waves-vagues.dfo-mpo.gc.ca/Library/4060715x.pdf
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Pêches et Océans Canada | Fisheries and Oceans Canada
Sciences des écosystèmes et des océans | Ecosystems and Oceans Science

Secrétariat canadien de consultation scientifique (SCCS)

Compte rendu 2017/013

Région du Québec

Compte rendu de l'examen régional par des pairs portant sur la révision du cadre d'évaluation du maquereau bleu des sous-régions 3 et 4

Du 18 au 20 janvier 2017
Mont-Joli, Québec

Président : Dominique Gascon
Rapporteure : Sonia Dubé

Institut Maurice Lamontagne
Pêches et Océans Canada
850, Route de la Mer, C.P. 1000
Mont-Joli, Québec, G5H 3Z4

Avril 2017

Canada

Pages 715 to / à 730

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68(a)

of the Access to Information Act

de la Loi sur l'accès à l'information

Document available at: http://publications.gc.ca/collections/collection_2017/mpo-dfo/Fs70-4-2017-013-eng.pdf
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Fisheries and Oceans Canada | Pêches et Océans Canada
Ecosystems and Oceans Science | Sciences des écosystèmes et des océans

Canadian Science Advisory Secretariat (CSAS)

Proceedings Series 2017/013

Quebec Region

Proceedings of the Regional Peer Review of the Assessment Framework for Atlantic Mackerel in subareas 3 and 4

January 18-20, 2017
Mont-Joli, Quebec

Chair: Dominique Gascon
Rapporteur: Sonia Dubé

Maurice Lamontagne Institute
Fisheries and Oceans Canada
850 Route de la Mer, P.O. Box 1000
Mont-Joli, Quebec G5H 3Z4

April 2017

Canada

000731

Pages 732 to / à 746

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est public-refusé en vertu de l'article

68(a)

of the Access to Information Act

de la Loi sur l'accès à l'information

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Mallet, Pierre

From: Cawthray, Jenness
Sent: March-06-17 1:49 PM
To: Gaudet, Mario
Cc: Mallet, Pierre; Thomas, Tashina
Subject: RE: AMAC_Agenda.doc

Thanks!

From: Gaudet, Mario
Sent: March-06-17 12:48 PM
To: Cawthray, Jenness
Cc: Mallet, Pierre; Thomas, Tashina
Subject: RE : AMAC_Agenda.doc

Hi Jenness,

No comments to add on the proposed agenda from the Gulf Region...

Thanks!

Mario

De : Cawthray, Jenness
Envoyé : 6 mars 2017 10:02
À : Rivierre, Antoine; Mallet, Pierre; Dunne, Erin; Waters, Christa; Gaudet, Mario; Thomas, Tashina; Doniol-Valcroze, Thomas
Cc : Lester, Brian
Objet : AMAC_Agenda.doc

Hi Everyone,
The agenda for AMAC is complete. Science can you please let me know if I allocated enough time for your presentations or do you require more time.
Note that under the other category daily trip limits and MSC will be discussed.
Please provide comments this morning if possible as I will be sending it out today. I will schedule a teleconference next week to discuss the agenda items and next steps for the upcoming AMAC meeting.
Thanks!
Jenness

Document Released Under the Access to Information Act / Document divulgué en vertu de la Loi sur l'accès à l'information.

Mallet, Pierre

From: Cawthray, Jenness
Sent: March-06-17 10:03 AM
To: Rivierre, Antoine; Mallet, Pierre; Dunne, Erin; Waters, Christa; Gaudet, Mario; Thomas, Tashina; Doniol-Valcroze, Thomas
Cc: Lester, Brian
Subject: AMAC_Agenda.doc
Attachments: AMAC_Agenda.doc

Importance: High

Hi Everyone,
The agenda for AMAC is complete. Science can you please let me know if I allocated enough time for your presentations or do you require more time.
Note that under the other category daily trip limits and MSC will be discussed.
Please provide comments this morning if possible as I will be sending it out today. I will schedule a teleconference next week to discuss the agenda items and next steps for the upcoming AMAC meeting.
Thanks!
Jenness

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ATLANTIC MACKEREL ADVISORY COMMITTEE
AGENDA
Delta Halifax, 1990 Barrington Street
Halifax, Nova Scotia
March 30, 2017 (9:00am – 4:00pm)

March 30 , 2017		
9:00	Welcome and Opening Remarks/Roundtable	15 min.
9:15	Safety At Sea Marine Protected Areas	20 min.
9:35	Science Presentation • Results of a poll sent to harvesters on missing catches • Stock Assessment • Collaboration with US on stock assessments	55 min.
10:30	**Coffee Break**	15 min.
10:45	Management Considerations • Setting the context: ○ Summary of management objectives, rebuilding plans and improving data collection • Total Allowable Catch for 2017-18 • Monitoring of Commercial and Bait Fisheries	75 min.
12:00	**Lunch Break**	1 hour
13:15	Management Considerations Continued • Licencing/ Access • Minimum size • Marine recreational fishery licence / Other regulatory changes • Other	90 min.
14:45	**Coffee Break**	**15 min.**
15:00	• Precautionary Approach Framework / Rebuilding Plan • Response to Commissioner of the Environment and Sustainable Development Audit • Establishment of a Rebuilding Plan Working Group • Integrated Fisheries Management Plan	45 min.

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	(IFMP) Update	
15:45	Closing Remarks	15 min.

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s.19(1)

s.21(1)(b)

Waters, Christa

From: Waters, Christa
Sent: March-06-17 10:21 AM
To: Cawthray, Jenness
Subject: AMAC_Agenda.doc
Attachments: AMAC_Agenda.doc

One or two edits, take them or leave them.

[redacted]

The lobster industry happens to have some conditions regarding mackerel for their certification. That industry agreed to the conditions and said they would do the work for that condition. [redacted]

[redacted]

[redacted]

Christa

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ATLANTIC MACKEREL ADVISORY COMMITTEE
AGENDA
Delta Halifax, 1990 Barrington Street
Halifax, Nova Scotia
March 30, 2017 (9:00am – 4:00pm)

March 30 , 2017		
9:00	Welcome and Opening Remarks/Roundtable	15 min.
9:15	Safety At Sea Marine Protected Areas	20 min.
9:35	Science Presentation • Results of a poll sent to harvesters on ~~missing~~ unreported catches • Stock Assessment • Collaboration with US on stock assessments	55 min.
10:30	**Coffee Break**	15 min.
10:45	Management Considerations • ~~Setting the context:~~ o Summary of management objectives, rebuilding plans and improving data collection • Total Allowable Catch for 2017-18 • Monitoring of Commercial and Bait Fisheries	75 min.
12:00	**Lunch Break**	1 hour
13:15	Management Considerations Continued • Licencing/ Access • Minimum size • Marine recreational fishery licence / Other regulatory changes • Other	90 min.
14:45	**Coffee Break**	**15 min.**
15:00	• Precautionary Approach Framework / Rebuilding Plan • Response to Commissioner of the Environment and Sustainable Development Audit • Establishment of a Rebuilding Plan Working Group • Integrated Fisheries Management Plan	45 min.

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	(IFMP) Update	
15:45	Closing Remarks	15 min.

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s.19(1)

Cormier, Mélanie

De: Buie, Jennifer
Envoyé: 7 mars 2017 08:42
À: Rivierre, Antoine; Cawthray, Jenness
Objet: RE: AMAC_Agenda.doc

Oui, je vais demander que l'ordre du jour être traduire et circuler.

From: Rivierre, Antoine
Sent: March-06-17 5:04 PM
To: Cawthray, Jenness; Buie, Jennifer
Subject: RE: AMAC_Agenda.doc

Hello Jennifer
Je t'envoie ce message,

J'ai demandé à Ryan Browne si nous pouvions recevoir l'agenda pour l'AMAC en français pour notre industrie.
Est-ce possible d'assurer un suivi sur cette demande ?

Merci d'avance pour ton aide sur ce dossier.

Antoine

De : Cawthray, Jenness
Envoyé : March-06-17 9:03 AM
À : Rivierre, Antoine; Mallet, Pierre; Dunne, Erin; Waters, Christa; Gaudet, Mario; Thomas, Tashina; Doniol-Valcroze, Thomas
Cc : Lester, Brian
Objet : AMAC_Agenda.doc
Importance : Haute

Hi Everyone,
The agenda for AMAC is complete. Science can you please let me know if I allocated enough time for your presentations or do you require more time.
Note that under the other category daily trip limits and MSC will be discussed.
Please provide comments this morning if possible as I will be sending it out today. I will schedule a teleconference next week to discuss the agenda items and next steps for the upcoming AMAC meeting.
Thanks!
Jenness

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Cormier, Mélanie

De: Hardy, Magalie
Envoyé: 7 mars 2017 15:31
À: Larochelle, Mia
Cc: Simard, France; Rivierre, Antoine
Objet: RE: Atlantic Mackerel Advisory Committee / Comité consultatif du maquereau de l'Atlantique
Pièces jointes: Copy of Comités consultatifs 2016-2017 pour approbation directeurs.xlsx

Normalement, on ne permet pas la participation au téléphone au comité consultatif (sauf pour les présentation de membre du MPO à des comités sectoriels ;) à moins de situations particulières.
On a pas été invité à cette rencontre (réf. tableau en pièce jointe). C'est Antoine qui va représenter la région et c'est lui qui devrait présenter nos enjeux (incluant autochtones s'il y a lieu).

De : Larochelle, Mia
Envoyé : 7 mars 2017 15:21
À : Cawthray, Jenness
Cc : Simard, France; Hardy, Magalie
Objet : TR: Atlantic Mackerel Advisory Committee / Comité consultatif du maquereau de l'Atlantique

Bonjour,

Je serai intéressée à participer à la réunion par téléphone si c'est possible, bien que je ne puisse confirmer ma disponibilité pour le moment.

Merci,

Mia Larochelle

Coordonnatrice des pêches autochtones par interim, Gestion de la ressource, Secteur Gaspésie - Bas-Saint-Laurent
Pêches et Océans Canada / Gouvernement du Canada
mia.larochelle@dfo-mpo.gc.ca / Tél. : 418-368-5559/1-877-898-5559

Acting Coordinator of Aboriginal fisheries, Resource Management – Lower St.Lawrence Area
Fisheries and Oceans Canada / Government of Canada
mia.larochelle@dfo-mpo.gc.ca / Tel. : 418-368-5559/1-877-898-5559

De : Browne, Ryan
Envoyé : 7 mars 2017 15:17
Objet : Atlantic Mackerel Advisory Committee / Comité consultatif du maquereau de l'Atlantique

SENT ON BEHALF OF BRIAN LESTER, CHAIR, ATLANTIC MACKEREL ADVISORY COMMITTEE (AMAC)
ENVOYÉ DE LA PART DE BRIAN LESTER, PRÉSIDENT, COMITÉ CONSULTATIF DE MAQUEREAU ATLANTIQUE (CCMA)

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This email acts as a clarification regarding the proposed supplementary session for the Atlantic Mackerel Advisory Committee meeting:

DFO would like to offer a supplementary session (within the advisory committee process) to ensure that First Nations and Aboriginal considerations about the 2017 mackerel fishery have a forum for expression. This supplementary meeting is scheduled for Wednesday, March 29th from 1:00 pm to 4:00 pm in Halifax, NS. The meeting place will be determined once the number of participants is confirmed.

Please contact Jenness Cawthray at Jenness.Cawthray@dfo-mpo.gc.ca by March 10th if you are interested in participating in this meeting so that a suitable sized boardroom can be booked.

Ce courriel clarifie la réunion supplémentaire proposée pour le Comité consultatif du maquereau de l'Atlantique:

Le MPO aimerait offrir une séance supplémentaire (dans le cadre du processus du comité consultatif) pour assurer que les considérations des Premières nations et des Autochtones au sujet de la pêche du maquereau en 2017 aient un forum d'expression. Cette réunion supplémentaire aura lieu le mercredi 29 mars de 13h00 à 16h00 à Halifax (N.-É.). Le lieu de la réunion sera déterminé une fois que nous sachions combien de participants y assisteront.

Veuillez contacter Jenness Cawthray (Jenness.Cawthray@dfo-mpo.gc.ca) d'ici le 10 mars si vous êtes intéressés à participer à cette réunion pour que nous puissions réserver une salle de conférence de taille adéquate.

Thank you,
Merci,

Ryan Browne

Administrative Assistant, Resource Management
Fisheries and Oceans Canada / Government of Canada
ryan.browne@dfo-mpo.gc.ca / Tel: 613-991-1833

Adjoint Administratif, Gestion intégrée des ressources
Pêches et Océans Canada / Gouvernement du Canada
ryan.browne@dfo-mpo.gc.ca / Tél. : 613-991-1833

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Consultations 2016-2017

Titre	Lieu	Dates	Participant(s)
Comité permanent sur la sécurité des bateaux de pêche	Rimouski	8 au 10 février	Cédric Arseneau
Comité consultatif Crabe commun 12ABC	Îles-de-la-Madeleine	8 mars	Dario Lemelin Josée Richard
Comité consultatif Crabe commun 12D, 12D1 à 12D7, 12F à 12Z, 17C	Gaspé	7 mars	France Simard Magalie Hardy
Comité consultatif Crabe commun 16B	Sept-Îles	21 mars	Andrew Rowsel Mathieu Morin
Comité consultatif Crabe des neiges sud du Golfe (12 (12,18, 25, 26), 12E et 12F)	Moncton	1er mars	Bernard Morin
Comité consultatif Crabe des neiges 12A et 12B	Gaspé	24 février	France Simard Magalie Hardy Éric Mauger
Comité consultatif Crabe des neiges 12C et 15 groupe B	Brador	8 mars	Andrew Rowsel Mathieu Morin
Comité consultatif Crabe des neiges 13	Téléconférence	Mars 2016	Bernard Morin **Andrew Rowsell**
Comité consultatif Crabe des neiges 12C et 14	Chevery	7 mars	Andrew Rowsel Mathieu Morin
Comité consultatif Crabe des neiges 15 et 16	Sept-Îles	2 mars	Andrew Rowsel Mathieu Morin
Comité consultatif Crabe des neiges 16A	Blanc-Sablon	8 mars	Andrew Rowsel Mathieu Morin
Comité consultatif Crabe des neiges 17	Rimouski	23 février	Bernard Morin Éric Mauger
Comité consultatif Crevette du Golfe	Québec	1er et 2 février	Bernard Morin Magalie Hardy
Comité consultatif Crevette du nord	St-John	9 mars	Anne-Marie Cabana

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Comité consultatif Hareng 15 (4S)	Blanc Sablon	le 19 avril	Andrew Rowsel Mathieu Morin Antoine Rivierre
Comité consultatif Homard - 22	Îles-de-la-Madeleine	23 février - sujet à changement	Dario Lemelin Josée Richard
Comité consultatif du maquereau de l'Atlantique (CCMA_AMAC)	Halifax	4 ou 5 avril	Antoine Rivierre
Comité consultatif Mye 1A, 1B, 1C 2 et 3	Baie Comeau	27 février	Andrew Rowsel Mathieu Morin
Comité consultatif du poisson de fond du golfe	Moncton	22 et 23 mars	Mathieu Morin Steve Trottier Jean-François Sylvestre
Comité de gestion régionale du flétan du Groenland	Institut Maurice-Lamontagne	14-15 mars	Steve Trottier Éric Mauger
Comité consultatif Oursin 9, 9-1	Baie Comeau	16 janvier	Andrew Rowsel Mathieu Morin
Comité consultatif des grands pélagiques de l'Atlantique CCGPA-ALPAC	Halifax	1-2 mars	Antoine Rivierre Jean-François Sylvestre

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Cyr, Charley

De: Doniol-Valcroze, Thomas
Envoyé: 7 mars 2017 22:52
À: Cyr, Charley
Objet: tableaux
Pièces jointes: Tableaux revue RES DOC maquereau.docx

Charley,

Pourrait-on mettre ces tableaux à disposition des participants dans le dossier partagé?

Merci,
Thomas

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Tableau 1. Débarquements (t) annuels de maquereau bleu dans les sous-régions 2 à 6 de l'OPANO depuis 1960 [1].

ANNÉE	CANADA		ÉTATS-UNIS [4]			TOTAL
	Navires canadiens [2]	Navires étrangers [3]	Commercial	Récréatif	Autres Pays	
1960	5 888	0	1 396	2 478	0	**9 762**
1961	5 458	11	1 361	-	11	**6 841**
1962	6 901	64	938	-	175	**8 078**
1963	6 363	99	1 320	-	1 299	**9 081**
1964	10 786	174	1 644	-	801	**13 405**
1965	11 185	405	1 998	4 292	2 945	**20 825**
1966	11 577	1 244	2 724	-	7 951	**23 496**
1967	11 181	62	3 891	-	19 047	**34 181**
1968	11 134	9 720	3 929	-	65 747	**90 530**
1969	13 257	5 379	4 364	-	114 189	**137 189**
1970	15 710	5 296	4 049	16 039	210 864	**251 958**
1971	14 942	9 554	2 406	-	355 892	**382 794**
1972	16 254	6 107	2 006	-	391 464	**415 831**
1973	21 619	16 984	1 336	-	396 759	**436 698**
1974	16 701	27 954	1 042	-	321 837	**367 534**
1975	13 544	22 718	1 974	5 190	271 719	**315 145**
1976	15 746	17 319	2 712	-	223 275	**259 052**
1977	20 362	2 913	1 377	-	56 067	**80 719**
1978	25 429	470	1 605	-	841	**28 345**
1979	30 244	368	1 990	3 588	440	**36 630**
1980	22 136	161	2 683	2 364	566	**27 910**
1981	19 294	61	2 941	3 233	5 361	**30 890**
1982	16 380	3	3 330	666	6 647	**27 026**
1983	19 797	9	3 805	3 022	5 955	**32 588**
1984	17 320	913	5 954	2 457	15 045	**41 689**
1985	29 855	1 051	6 632	2 986	32 409	**72 933**
1986	30 325	772	9 637	3 856	26 507	**71 097**
1987	27 488	71	12 310	4 025	36 564	**80 458**
1988	24 060	956	12 309	3 251	42 858	**83 434**
1989	20 795	347	14 556	1 862	36 823	**74 383**
1990	19 190	3 854	31 261	1 908	30 678	**86 891**
1991	24 914	1 281	26 961	2 439	15 714	**71 309**
1992	24 307	2 417	11 775	284	0	**38 783**
1993	26 158	591	4 666	600	0	**32 015**
1994	20 564	49	8 917	1 705	0	**31 236**
1995	17 706	0	8 468	1 249	0	**27 424**
1996	20 394	0	15 812	1 340	0	**37 547**
1997	21 309	0	15 403	1 737	0	**38 449**
1998	19 334	0	14 525	690	0	**34 548**
1999	16 561	0	12 031	1 335	0	**29 927**
2000	16 080	0	5 649	1 448	0	**23 177**
2001	24 429	0	12 340	1 536	0	**38 305**
2002	34 662	0	26 530	1 294	0	**62 485**
2003	44 736	0	34 298	770	0	**79 804**
2004	53 777	0	54 990	473	0	**109 240**
2005	54 621	0	42 187	1 032	0	**97 840**
2006	53 741	0	56 640	1 511	0	**111 801**
2007	53 394	0	25 547	584	0	**79 147**
2008	29 671	0	21 734	783	0	**52 188**
2009	42 231	0	22 635	603	0	**65 470**
2010	38 753	0	9 877	759	0	**49 388**
2011	11 400	0	531	932	0	**12 863**
2012	6 582	0	5333	668.345	0	**12 487**
2013	8663	0	4372	867	0	**12 681**
2014	6680		5905	788		
2015 [5]	4143		5616	1157		
2016 [5]	5357					
Moyenne: (1978-2014)	**7671**	**393**	**15 898**	**1 707**	**7 541**	**53 448**

[1] Source: OPANO 1960-1994; ZIFF 1995-2016

[2] Inclut les ventes en mer

[3] Inclut les prises avec allocations canadiennes

[4] Source: Northeast Fisheries Science Center, Woods Hole, MA et Mid-Atlantic Fishery Management Council, Dover, DE

[5] Préliminaire

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Tableau 2. Débarquements (t) annuels de maquereau bleu par province (sous-régions 3 et 4 de l'OPANO) de 2013 à 2016.

s.19(1)
s.20(1)(b)

PROVINCE	ANNÉE				MOYENNE
	2013	2014	2015 [1]	2016 [1]	(1995-2014)
Nouvelle-Écosse	450	770	1183		**3 455**
Nouveau-Brunswick	766	449	571		**1 464**
Île-du-Prince-Édouard	825	527	643		**3 541**
Québec	1 453	1502	1045	844	**2 756**
Terre-Neuve	5 169	3432	701	4513	**17 516**
Non déterminé	0	0	0		**5**
TOTAL	**8 663**	**6680**	**4143**	**5357**	

Tableau 3. Débarquements (t) annuels de maquereau bleu (sous-régions 3 et 4 de l'OPANO) par engin de pêche de 2013 à 2016.

ENGIN	ANNÉE				MOYENNE
	2013	2014	2015 [1]	2016 [1]	(1995-2014)
Chalut					**14**
Chalut pélagique[2]					**1**
Senne Tuck					**1009**
Senne bourse < 65'					**10783**
Senne bourse > 65'					**4258**
Autres sennes					**872**
Filet maillant					**4041**
Trappe					**2668**
Palangre					**11**
Ligne à main					**4005**
Turlutte					**552**
Turlutte mécanisée					**166**
Fascine					**27**
Autres					**317**
Non déterminé					**13**
TOTAL	**8 663**	**6680**	**4143**	**5357**	

[1] Préliminaire

[2] Chalut pélagique, pêche exploratoire en Nouvelle-Écosse en 2006 et 2007

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s.19(1)
s.20(1)(b)

Tableau 4. Débarquements (t) annuels de maquereau bleu par division de l'OPANO et région de 2013 à 2016.

DIVISION	ANNÉE				MOYENNE
ET RÉGION	2013	2014	2015 [1]	2016 [1]	(1995-2014)
2J					5
3K					5391
3L					1190
3O					1
3P					741
4R					10190
4S					54
4T					8374
4V					382
4W					210
4X					2146
5YZ					1
Non déterminé					51
Plateau néo-écossais (4VWX5YZ)					2738
Golfe du Saint-Laurent (4RST)					18646
Côtes est et sud de Terre-Neuve (2J3KLOP)					7314
TOTAL	8 663	6 680	4 143	5 357	

[1] *Préliminaire*

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Tableau 5. Débarquements (t) de maquereau bleu par division, zone unitaire et sous-division de l'OPANO de 2013 à 2016 et moyenne de la période 1995-1999 et 2000-2014.

DIVISION	Zone unitaire, sous-division	MOYENNE (1995-1999)	ANNÉE				MOYENNE (2000-2014)
			2013	2014	2015 [2]	2016 [2]	
2J	2Jb	0		0	0	0	1
	2Jj	0		0	0	0	1
	2Jm	0		0	0	0	5
	Total:	***0***	***4***	***0***	***0***	***0***	**6**
3K	3Ka						**37**
	3Kb						**0**
	3Kd						**3562**
	3Kg						**17**
	3Kh						**2745**
	3Ki						**820**
	3Ku [1]						**6**
	Total:	***3***	***191***	***6***	***208***	***2 803***	**7187**
3L	3La		0			0	**565**
	3Lb		0			0	**904**
	3Ld		0			0	**0**
	3Lf		0			0	**148**
	3Lg		0			0	**2**
	3Lj		0			0	**8**
	3Lq		0			0	**13**
	3Lu [1]		0			0	**6**
	Total:	***2***	***0***	***25***	***54***	***0***	**1586**
3O	3Oa	0	0	0	0	0	**2**
	Total:	***0***	***0***	***0***	***0***	***0***	**2**
3P	3PSa		0		0	0	**99**
	3PSb		0		0	0	**69**
	3PSc		0		0	0	**76**
	3PSd		0		0	0	**27**
	3Pn		0		0	0	**706**
	3Pu [1]		0		0	0	**0**
	Total:	***46***	***0***	***246***	***0***	***0***	**972**

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s.19(1)

Tableau 5 (suite).

DIVISION	Zone unitaire, sous-division	MOYENNE (1995-1999)	ANNÉE				MOYENNE (2000-2014)
			2013	2014	2015 [2]	2016 [2]	
4R	4Ra						400
	4Rb						3 191
	4Rc						4 066
	4Rd						5 170
	4Ru [1]						0
	Total:	*2 279*	*4 909*	*3 160*	*438*	*1 710*	12 827
4S	4Sv						0
	4Sw						69
	4Sy						0
	4Sz						0
	Total:	*9*	*245*	*20*	*29*	*63*	69
4T	4Tf						1 187
	4Tg						1 489
	4Th						156
	4Tj						224
	4Tl						2 906
	4Tm						526
	4Tn						528
	4To						21
	4Tp						0
	4Tq						1
	4Tu [1]						70
	Q [3]						222
	Total:	*11 640*	*2747*	*2 390*	*2 242*	*750*	7 329

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s.19(1)

Tableau 5 (suite).

DIVISION	Zone unitaire, sous-division	MOYENNE (1995-1999)	ANNÉE				MOYENNE (2000-2014)
			2013	2014	2015 [2]	2016 [2]	
4V	4Vn	1 042				0	159
	4Vs	0				0	1
	4Vu [1]	1				0	0
	Total:	***1 044***	***146***	***143***	***58***	***0***	161
4W	4Wd	380				0	61
	4Wg	0				0	0
	4Wh	0				0	1
	4Wj	0				0	2
	4Wk	103				0	18
	4Wl	0				0	2
	4Wu [1]	73				0	11
	Total:	***557***	***17***	***220***	***186***	***0***	94
4X	4Xm	2 907				0	728
	4Xn	1				0	12
	4Xo	107				0	256
	4Xp	4				0	2
	4Xq	21				0	55
	4Xr	2				0	15
	4Xs	85				0	10
	4Xu [1]	354				0	628
	Total:	***3482***	***241***	***340***	***682***	***0***	1 700
5	5YZ					0	1
	TOTAL		**8 663**	**6 680**	**4143**	**5 357**	

[1] "u" = zone unitaire ou sous-division non déterminée;

[2] Préliminaire

[3] Récépissés supplémentaires d'achat, région du Québec

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Tableau 6. Débarquements (t) mensuels de maquereau bleu en 2015 (préliminaire) par division de l'OPANO et engin de pêche.

DIVISION	ENGIN	MOIS												TOTAL
		Jan.	Fév.	Mars	Avril	Mai	Juin	Juillet	Août	Sept.	Oct.	Nov.	Dec.	
3K	Senne bourse										135.8	19.4		**155.2**
	Senne "Tuck"											53.0		**53.0**
	Trappe													**0.0**
	Autre													**0.0**
3L	Senne bourse											53.939		**53.9**
	Senne "Tuck"													**0.0**
	Trappe													**0.0**
	Autre													**0.0**
4R	Senne bourse										114.3			**114.3**
	Senne "Tuck"										311.3	6.04		**317.3**
	Filet maillant													**0.0**
	Trappe								0.1	6.8				**6.9**
4S	Senne bourse							12.6	3.3					**15.8**
	Filet maillant													**0.0**
	Trappe							11.5	1.4					**12.9**
	Autre								0.2					**0.2**
4T	Filet maillant					1.4	324.4	188.2	9.1	10.7	9.0			**542.7**
	Turlutte mécanique						31.233	72.1	262.4	218.7	29.2	30.336	5.072	**649.0**
	Ligne (toutes)						23.8	194.3	495.1	275.3	46.5	13.133		**1 048.1**
	Autre									2.2				**2.2**
4V	Ligne (toutes)							5.933	5.091		0.27			**11.3**
	Trappe						43.234							**43.2**
	Filet maillant						0.241					2.999		**3.2**
	Autre					0.009			0.238					**0.2**
4W	Chalut de fond		0.301	0.133	0.237	0.698	0.161	0.017			0.08	0.067	0.314	**2.0**
	Ligne (toutes)							0.354	10.284	3.955	4.59	0.533	0.036	**19.8**
	Trappe						62.184	80.938	11.738	3.953				**158.8**
	Autre								3.108			2.677		**5.8**
4X	Chalut de fond			0.019	0.038									**0.1**
	Senne bourse											74.793		**74.8**
	Filet maillant					7.305	15.027	8.351	18.871	10.267	8.728	23.734		**92.3**
	Ligne (toutes)							3.391	86.479	95.31	64.003	47.508	0.544	**297.2**
	Trappe					4.536	80.894	62.639		69.035	0.771			**217.9**
	Autre	0.023												**0.0**
5Y	Senne bourse											244.91		**244.9**

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Tableau 7. Débarquements (t) annuels de maquereau bleu par division de l'OPANO et engin de pêche de de 2013 à 2016 et moyenne de la période 1995-1999 et 2000-2014.

DIVISION	ENGIN	MOYENNE (1995-1999)	ANNÉE				MOYENNE (2000-2014)
			2013	2014	2015 [1]	2016 [1]	
2J	Senne bourse < 65'	0	0	0	0	0	6
	TOTAL	***0***	***0***	***0***	***0***	***0***	**6**
3K	Filet maillant	2					**45**
	Ligne à main	0					**37**
	Palangre	0					**3**
	Turlutte	0					**0**
	Senne bourse < 65'	0					**5626**
	Senne "Tuck"	0					**335**
	Autres sennes	0					**1016**
	Trappe	0					**125**
	TOTAL	***3***	***192***	***6***	***208***	***2803***	**7188**
3L	Filet maillant	2	0				**16**
	Ligne à main	0	0				**6**
	Palangre	0	0				**1**
	Turlutte mécanisée	0	0				**0**
	Senne bourse < 65'	1	0				**1177**
	Senne "Tuck"	0	0				**97**
	Autres sennes	0	0				**250**
	Trappe	0	0				**39**
	TOTAL	***2***	***0***	***25***	***54***		**1586**
3O	Senne bourse < 65'	0	0	0			**2**
	TOTAL	***0***	***0***	***0***			**2**
3P	Filet maillant	40					**41**
	Ligne à main	5					**4**
	Palangre	0					**1**
	Turlutte mécanisée	0					**0**
	Senne bourse < 65'	1					**579**
	Senne bourse > 65'	0					**238**
	Senne "Tuck"	0					**0**
	Autres sennes	0					**6**
	Trappe	0					**104**
	TOTAL	***46***	***25***	***246***			**973**

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Tableau 7(suite).

DIVISION	ENGIN	MOYENNE (1995-1999)	ANNÉE				MOYENNE (2000-2014)
			2013	2014	2015 [1]	2016 [1]	
4R	Filet maillant	126					23
	Ligne à main	56					96
	Palangre	2					8
	Turlutte	2					0
	Senne bourse < 65'	1 262					6521
	Senne bourse > 65'	776					5156
	Senne "Tuck"	0					1120
	Autres sennes	2					55
	Trappe	55					222
	TOTAL	***2 279***	***4 908***	***3155***	***439***	***1710***	***12827***
4S	Filet maillant	1					5
	Ligne à main	0					0
	Senne bourse < 65'	0					30
	Trappe	0					34
	Autre	8					0
	TOTAL	***9***	***245***	***20***	***29***	***63***	***69***
4T	Chalut de fond	0					0
	Filet maillant	5 375					3077
	Ligne à main	4 299					3547
	Palangre	0					0
	Turlutte	1 543					221
	Turlutte mécanisée	0					225
	Senne bourse < 65'	19					1
	Trappe	21					1
	Casier	1					5
	Fascine	0					0
	Q [2]	0					222
	Autre	383					30
	TOTAL	***11 641***	***2 748***	***2389***	***2242***	***750***	***7329***
4V	Chalut de fond	0					0
	Filet maillant	55					7
	Ligne à main	352					10
	Palangre	0					1
	Turlutte	0					0
	Senne bourse < 65'	16					0
	Trappe	620					136
	Autre	0					7
	TOTAL	***1 044***	***145***	***144***	***57***		***161***

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Tableau 7(suite).

DIVISION	ENGIN	MOYENNE (1995-1999)	ANNÉE 2013	2014	2015 [1]	2016 [1]	MOYENNE (2000-2014)
4W	Chalut de fond	46					2
	Chalut pélagique	0					1
	Filet maillant	238					27
	Ligne à main	11					5
	Senne bourse > 65'	0					2
	Trappe	261					56
	Autre	0					0
	TOTAL	***557***	***16***	***219***	***187***		***94***
4X	Chalut de fond	2					0
	Filet maillant	226					125
	Ligne à main	42					47
	Palangre	0					0
	Senne bourse < 65'	5					0
	Senne bourse > 65'	0					23
	Trappe	3 141					1474
	Fascine	65					14
	Autre	0					17
	TOTAL	***3 482***	***240***	***340***	***682***		***1700***
5YZ	Autre	0	0	0	0		1
	TOTAL	***0***	***0***	**0**	0		1
Autre	Autre	0					27
	TOTAL	***0***					***27***
TOTAL	Chalut de fond	48					3
	Chalut pélagique	0					1
	Filet maillant	6 065					3365
	Ligne à main	4 764					3752
	Palangre	2					14
	Turlutte	1 545					221
	Turlutte mécanisée	0					225
	Senne bourse < 65'	1 304					13943
	Senne bourse > 65'	776					5418
	Senne "Tuck"	0					1179
	Autres sennes	2					1326
	Trappe	4 099					2191
	Casier	1					5
	Fascine	65					14
	Autre	391					82
	Q [2]	0					222
GRAND TOTAL		***19 062***	***8 663***	***6 680***	***4 143***	***5 357***	***31961***

[1] Préliminaire; [2] Récépissés supplémentaires d'achat, région du Québec

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Tableau 8. Débarquements (t) annuels de maquereau bleu pour les districts statistiques de la Nouvelle-Écosse depuis 2000 et moyenne de la période 1995-1999.

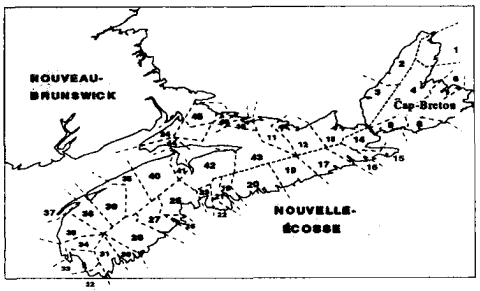
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ANNÉE	DISTRICT STATISTIQUE																								
	1	2	3	4	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	25	26	27
Moyenne (1995-1999)	*749*	*260*	*81*	*66*	*81*	*166*	*24*	*67*	*0*	*2*	*3*	*55*	*50*	*289*	*8*	*43*	*18*	*0*	*50*	*0*	*347*	*1 635*	*1 188*	*16*	*26*
2000																									
2001																									
2002																									
2003																									
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2013																									
2014																									
2015 [1]																									
2016 [1]																									
Moyenne (2000-2013)	*181*	*150*	*324*	*6*	*3*	*7*	*0*	*5*	*0*	*106*	*9*	*496*	*20*	*26*	*0*	*2*	*0*	*1*	*20*	*20*	*136*	*754*	*448*	*18*	*15*

Tableau 8. (Suite).

ANNÉE	DISTRICT STATISTIQUE														TOTAL
	28	30	31	32	33	34	36	37	40	43	44	45	46	90 [2]	
Moyenne (1995-1999)	*4*	*0*	*6*	*10*	*137*	*16*	*0*	*1*	*0*	*0*	*0*	*9*	*1*	*37*	5 445
2000															4 547
2001															4 058
2002															3 989
2003															7 187
2004															5 325
2005															4 936
2006															2 526
2007															2 831
2008															1 961
2009															1 454
2010															666
2011															416
2012															683
2013															450
2014															769
2015 [1]															1184
2016 [1]															
Moyenne (2000-2013)	*12*	*0*	*1*	*10*	*500*	*32*	*3*	*1*	*15*	*0*	*2*	*2*	*1*	*0*	

Localisation des districts de pêche en Nouvelle-Écosse



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Tableau 9. Débarquements (t) annuels de maquereau bleu par allocation et type d'engin de pêche et moyenne de la période 1995-1999

s.19(1)

ALLOCATION	ENGIN	MOYENNE	ANNÉE				MOYENNE
		(1995-1999)	2013	2014	2015 [1]	2016 [1]	(2000-2014)
40 %	Chalut pélagique	0	0	0	0	0	2
	Senne bourse > 65'	776					5418
	Total	**776**					**5420**
	TAC	*40 000*	*14 400*	*4 000*	*3 200*	*3 200*	24987
	% capturé	**2**					21
60 %	Senne bourse < 65'	1 304					13935
	Autres	16 982					12575
	Total	**18 285**					**26510**
	TAC	*60 000*	*21 600*	*6 000*	*4 800*	*4 800*	37480
	% capturé	**30**					72
	Grand Total	**19 061**	**8 663**	**6 680**	**4 143**	**5 357**	**31930**
	TOTAL TAC[2]	**100 000**	**36 000**	**10 000**	**8 000**	**8 000**	

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s.19(1)
s.21(1)(b)

Julie Marentette

Atlantic Mackerel – Assessment – March 2017 Notes

Day 1 - March 8, 2017

[redacted] - chair

Objectives –ID Qs and issues not addressed, incl. last fishing season, math/stats, weaknesses etc.

Thomas – assessment delayed from 2016 – staffing, US collaboration. Now, use new model, data updates 2013-2016, 2016 is preliminary; commercial fishery landings/samples, and egg survey samples.

Summary of 2014 assessment (highlights) – consensus reached that landings in NAFO 3 and 4 decreased significantly, also in US. Length at 50% maturity was larger than minimum capture. Body condition decreased since 2003, egg abundance fell, used as sequential popl'n analysis, recommended no more than 800 t catch, critical zone.

Terms of Reference –reviewed.

Martin – Brief Survey of Population structure

Q – Ian – PCA – genetic factors?

Martin – no, DNA

Q Thomas – subtle structure in western populations as per eastern?

Martin – possible – [redacted]

Thomas - Biology

Q – Stephane – we are talking about Rs not R absolute

Q – Hugo – is temperature recording done at optimal time?

Thomas – August – September, the warmest period of the year for surface waters. WE don't know when volume of water becomes limiting, does it have a function? Water quality changes over space and time.

Q – Michel Gilbert - are we talking also about coastal availability?

Stephane – this is what we put in place, we have just started working on this last week

Thomas – closest zone, surveys don't get that close

Hugo – its in the blue zone, too warm in August?

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Thomas – blue is too cold, I don't have the maps, can go either way

Q – juveniles are very coastal yes? Data?

Thomas – we have very few samples of juveniles due to minimal size in comm fisheries. We have the eggs and larvae from survey. We need a dedicated survey for that.

Commercial Landings

Q – Hugo – data from last season [redacted]

[redacted] – RM – we have submitted reports with those data, [redacted]

Thomas – yes, those are fishery data from QC/Gaspe, PEI/NS/NB we have nothing.

[redacted] – RM – I have the 2016 data on my computer.

?? – Maritimes – 2 years, not complied – Ottawa but not regional servers

[redacted] – comm breakdown?

Thomas – we need to resolve this problem. I thought issue with data processing, but if MAR has the data.

[redacted] – data not avail after 6 mos? [redacted]

Thomas – what's missing in the data does not influence our vision of the situation. We still know at least 8 k t caught, just can't allocate them by region, to be more precise.

Q – Kim Emond – landing categories not adjusted on global maps?

Q – [redacted] – traps from QC border to ? but NL harvesters aren't required to record position, [redacted] Mackerel bycatch in herring traps. So we need to be careful for the < 40' fleet, data may be incomplete. Mackerel bycatch would be recorded. Traps often just tied in harbour. So some more nuances to data.

Thomas – so those data include declared bycatch – so in theory they do make their way to our data. What's the specific recommendation?

[redacted] if you want an accurate picture of traps – we don't record lat/long in NL.

Thomas – would you expect picture to change? (looking at 2015 4-panel slide 32).

[redacted] (points out north of NL)

Martin – we have landings not positions essentially

[redacted] – NL has no issue recording this, not req in logbook

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Martin – to discuss at advisory, with Erin?

Q – Ian – small seiners, what about large seiners?

Thomas – yes, in 2015 last complete year we have. Almost no seiners in NL, about same place as small seiners, some in Bay of Fundy

Biological Indicators 2013-2016

Q – Stephane – what about plankton variations?

Slide 33

Q - ? – fat and water vary in pelagic fish – weight may not vary but composition does. Have you looked at this? Energetic reserves of fish and what changes its status. Also may not be independent on actual size of fish. [allometry?]

Thomas – this has been noted, I cannot recall what Francois has done on this, we could tweak this

Stephane – are you adjusting this to the spawning period?

Thomas – no, sampling in June, to be discussed later, hard to get samples before spawning

Ian – I may be mistaken but historically the K value was not based on total weight, would eliminate the before/after spawning effect

Thomas – no, always this way (?). Previous years put emphasis on K as alternative to egg survey, harder to interpret k today

? I don't think we need to neglect K, cp with cod, if K changes a lot will have big effect on fecundity

Thomas - [redacted] - also important, concerning to see below (?)

Slide 34

Ian – for size at maturity, we are working with comm samples. May create (enhance?) fluctuations. We need to know where immature fish are.

Thomas - [redacted] Tomorrow we will discuss legal size limits.

Slide 37

Q – Antoine, why such important catches of smaller fish in 2015-2016

Thomas – could be more smaller fish due to more recruitment, we saw signs in 2015 of improved recruitment. But have to put it in relation to other cohorts. If many big cohorts, they will all look less important.

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Martin – samplings of Gulf (where you see 1 year olds) are not in data?

Thomas - we do include these in landings. We may be underestimating part of 1-2 year old fish

Stephane – signs of strong recruitment in 2015?

Thomas – Teleost surveys, bottom gear in many areas of Gulf, can't use that as quantitative index, catchability of bottom gear... but overall dist'n in Gulf, small mackerel, last time we saw that was 1999. I also think that industry noticed signs of lots of small fish in gear. Most of the fish do not make it to landings so small fish greatly underestimated.

Stephane – average cohorts in 2000's no sign like this

Thomas – changed the following year

Industry member – we have to move out a lot due to small mackerel, not sure if this gets recorded, have to go south for larger fish.

Thomas – heard this a lot in 2016, smaller than legal size. So another sign that 2015 recruitment was high. But those data don't get to Science as we use the comm catch. Usually takes a couple years before we can see clearly that there was a big R event and assess the impact. We see them at age 2. We only have early signs atm.

Hugo – what do we do with the fish thrown back? Discard mortality?

Martin – seiners surround fish, go with camera, then see if size is correct. If not, just let go. Mort is not significant at that point. What do the industry think?

Industry – 99% swim away, when someone sees small fish, the whole fleet moves on. Night time they come to the light, can see easily

Hugo – you see more 5 to 6 year old, but if you go back to previous slide 36, but we don't see the older fish in there.

Thomas – stock has seen huge contraction in age structure, main sign of overfishing and collapse of stock since 2000. What we are observing now is a light spreading beginning. Industry reporting catching bigger fish than in recent years. But true, hardly any 7 to 9 year olds left. So age structure is still insufficient, the spreading is progressive in the past. That matches idea that seine matches fish mortality (?). Emphasized in previous assessment. That's why we have size limit to protect against certain gears. Hope is that the fishers then switch zones if in small fish area. If discard mortality is higher, then we underestimate age 1 mort.

<u>Slide 39</u>

Stephane – we aren't seeing the same length patterns as earlier

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Thomas – no changes of similar intensity as 1999. Teleost – spatial presence was huge but we have not seen anything as clear (?) We need age 2-3 data before we can measure intensity of cohort

[redacted] – we look at lefthand side of graph

Thomas – when green arrows dip down, nuance of signal as martin pointed out (growth curve?)

? – regarding 2014 cohort, why not mention

Thomas – yes, you can see them in 4T – line graph of year 2015 on slide 40

Slide 43

Ian – why were purse seine landings so low in 2015 in NL?

Industry – I guess mackerel didn't show up. It cycles.

Egg Surveys

Slide 49

Ian – if you look at the full curves, three of the curves plateau … ? …. Is it better to standardize to 15? Referring to GSI?

Thomas – when we had more data at the beginning of the season, we are not at 25 either

Ian – we don't have the data. With the herring, the max relationship depends on size/age of fish, so you end up with a plateau that has more weight with younger/older fish. So 2014-2016 mostly made of young fish.

Thomas – the change from 2.4 to 3% is relatively significant though.

Ian – doesn't take that long to figure out, its feasible.

Hugo – your abundance index is at the bottom, won't change much anyways. Even if we lack data at beginning of season.

Ian – do we see Mackerel in the Gulf before the date of the sampling? Will affect the shape of the GSI curve.

Martin – way back when Cape Breton fishery, we did get sampling before the beginning of the spawning… that fishery no longer exists so we don't have those samples.

Ian – other means to get the data?

Martin – no sampling from NS, period, [redacted] Director hears this.

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MAR RM biologist- every sample is measured, we should be able to get these data to you. Francois should have had some samples.

Thomas – we used to get samples yes

Martin – stock collapsed and people left the fishery, a challenge to get samples in spring now.

MAR RM biologist – can fix this in weeks maybe

Slide 51

[redacted] – we are only covering 1/5 to 1/6 of Gulf area... envt'l changes and catches in 4R versus 4T, etc. At face value, there's a lot of gaps here with the egg survey as an abundance index.

Thomas – disagree on coverage. The idea of the egg survey is to cover main spawning site. So although it is only a small part of adult range, we have never been able to survey adults, long ago decided to rely on spawning survey. WE have conducted additional surveys and tried to find more spawning grounds. Slide 52, 2015 and 2016 in NE NL. No signs of spawning at all. Francois also did more on Scotian shelf and west coast of NL, and never found any in the past. We are open to surveying other spawning areas if found, but have no evidence of this.

[redacted] - we want 4R c and d surveyed.

Martin – only 1-2% of spawning in southern Gulf. Have also covered entire area, sw NS to w NL.

Thomas – (in response to industry question) egg survey tracks what we see in the age structure and in the landings. There may be another spawning somewhere, but we have not found it.

Stephane – the possible change in spawning – east versus west Atlantic – maturation of the gonads follows the temperature patterns (8 degrees). Sometimes we don't even reach 8 degrees in the north.

Thomas – but temps may be shifting. If all of a sudden we had a whole load of spawning – should be have additional stations outside? More of a concern when all stations were active. Now, with egg levels as they are, extra stations wouldn't change anything.

DFO biologist – pelagic research council in 1999, we sampled south of Halifax. Very marginal. That work is published.

Hugo – there might have been very minimal laying,

Antoine – the landings to be used in modelling from NL, the 3KL, no eggs so how do you link with the egg survey in model. Are we talking different origins?

Thomas – these fish were born in Southern Gulf as well – or not, good question, but we assume one main site for Canadian zone and all fish caught are from that place.

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Hugo – the mackerel fishery in other regions, does it take place in May/June

Thomas – fleet movement is quite variable

Martin – as you get farther from spawning site, you get bigger fish as in 3KL

Industry – question re: pencil mackerel in cape north to green bay

Martin – is why we are doing genetic analyses. Shouldn't expect YOY to travel this far.

Development of US Mackerel Index – [redacted] **(on phone)**

[redacted]

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[redacted]

[redacted]

Analysis of Undeclared Catches

Slide 54

Industry – any bait used in NL would have to have been previous year fish, from a processor.

Erin (DFO) – you may be right, but we still see bait nets set and we committed to making a logbook at 2016 advisory meeting. Working with Kim Emond and [redacted](in NL)

Martin – is this accurate about NL, no undeclared commercial?

[redacted]– negligible, not our traditional bait. Halibut uses herring.

Industry (QC) – we have logbook for bait.

Slide 67

Hugo - how did you weigh by province?

[redacted]- we did not weight by province, don't have means to do this

Thomas – we used declared tonnage. Idea was to get an idea of the scope.

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Hugo – the catches, you've tried to recreate the catches. What about foreign fleet. Your model had a hard time reproducing what was in the past.

Thomas – there is a version of the model with that only and one with the foreign catches. Now we have seen the American data.

Slide 78

Stephane – why do some years you hit the upper limit

Thomas – quick decline of biomass over time, etc., the model can't explain this, so it puts in other catches. If it doesn't have the limit, it can't explain, but if we give it a margin of error the model uses it.

Stephane – some years if the data are provided, do we end up with absurd findings?

Thomas – we decided that the UL needed to be justified. If we could find the numbers to justify raising the UL, we could raise it higher. So we added the American and foreign catches.

[redacted] I see that the technique integrates uncertainty. Instead of looking at black line as predicted catches.

Thomas – our main argument is this – we spent a lot of time on survey. Our team is convinced that this UL rests on an assessment. We would have a hard time explaining what UL to use if we used a range. Industry says clearly we underestimate what's in the water.

Stephane – did you look into the source of data to see if when the model needs that margin, in those years, is the biological data not as sufficient?

Thomas – no real obvious pattern. We could try a case by case basis. No miracle solution.

[redacted] - important to keep line reasonable so that the natural mortality is kept reasonable.

[redacted] – even if you compare with other models, not that many parameters. So the source of error is linked to catches at age and the egg index. The process error corrects the natural and fishery mortality, mostly natural because it is fixed.

Thomas – it is a model built specifically to meet the needs of Mackerel, not necessarily want to repeat the January meeting here.

Hugo – you didn't use a constant % of catch, right?

Thomas – true, we did this in January though

Industry (QC) – so we have been saying this for 25 years, all the catches need to be monitored

Martin – when it comes to rec fisheries, we are far from having a realistic picture

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Day 2 - March 9, 2017

Slide 3

Q - US – sampling rate? Age and length structure holds well. How is the sampling rate affected by undeclared catch. Sampling rate = sample/catch, how it represents the catch.

Thomas – We obtain samples from most times of year, most regions, most gears, but there are holes. We weight biological samples by landings so we associate bio samples by gear type, area, etc but we are limited by the number of samples received. Undeclared catches are not necessarily same dist'n of gear/area etc., as the commercial catch. So if 80% of comm catch was from NL seiners, and most of the undeclared catch comes from another region/gear... at these times, it is true that the bio samples are likely not representative of the age structure of the undeclared catches. The model cannot account for this.

Slide 6

Q – Stephane – why does the egg survey match the estimated SSB better more recently than in the past?

Thomas – we addressed in January – we aren't sure. Could be coefficient, changes of sampling protocol. If you divide the series into 2 and use 2 different coefficients, model can do better but we have no reason to do this to support the use of 2 series. Problem with model? Egg index? We don't know.

Ian – Q – I would have a tendency to believe it is an issue with the egg index because the fluctuations are enormous. It's impossible.

Thomas – variations are very strong in the model, biologically not realistic. We know there is an uncertainty in the overall estimations, proportional to... difficulty with fecundity, difficulty with egg sampling, but the overall objective of this exercise is to be informed using the realistic values we have on hand.

Q – Stephane – might be something to explore. When you work with zooplankton data on same sampling, the filtered volumes versus length of tows, we've seen differences. So the capacity of the sampling is lower, but we don't know whether the sampling is less or more efficient.

Thomas – good point, we may not be able to see what is happening in those cases, but eventually once you pass a certain egg density system becomes more inaccurate.

Q – Stephane – could be zooplankton that's the problem.

Thomas – we cannot deny that when we have high SSB, it shows we have an increase, it wants to go beyond limits.

Slide 7

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Q – Mathieu – Is there (unclear)

Thomas – when the plot was selected, the goal was to show whats happening with the egg index. So the effect may be larger. We don't have the egg index before this period, but the general idea remains the same. .... The recent period doesn't change, not even 1000 t, so basically no effect on recent years.

Q – [redacted] – relating to slides 3 and 4, interesting that the predicted catch was higher in the 2000's than in the 1970's, [redacted]

Thomas – [redacted]

The issue in the early 2000's. The model has a hard time explaining the fast disappearance of the 1999 cohort. So it uses any room we give it. Whether this is due to American landings or not, we don't know.

Q – US – one way to adjust model will be to use more than one fleet. Can this be used?

Thomas – not at this point. Working with stock synthesis, you can do this, but at this point we don't feel we have a good enough grasp of gear changes and selectivity changes over time. Merit in the idea that the undeclared catches should be a different fleet. This is one area that is good for future long-term development of the model. If reporting improves, would help adjust the model.

[redacted] – if the undeclared catch was treated as a different fleet, the model might interpret that differently than censoring. Because that extra space is now a different fleet.

[redacted]

Thomas – This model is easier to use than stock synthesis, does only what is needed to and transparent. SS has a lot of "options", so many ways to go wrong.

<u>Side 10</u>

Thomas – not sure why the retrospective patterns show big changes in past.

[redacted] – easier to see with colours added? Maybe come back later?

Mathieu – level of relativity, if it increases by 20% at one point in time, looks bigger in past (?)

Thomas – model has a harder time before 1990... (after break) the lowest lines in the past were produced by the most recent few years.

Hugo – in last few years, relationship between catches (decl and undecl), higher than 1.5. So if we remove these two, three years, the data become more consistent?

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s.19(1)
s.21(1)(b)

[redacted] – it would be worthwhile to be certain... this is not something we do at random. How can this influence... how the past influences the censored view? We see landings, not SSB. But I don't think the censored part is affected.

Mathieu – when you see differences between curves, it could be due to censored catches. The general trend of SSB or catches, differences in retrospective pattern.

Thomas – we can do this for the non-censored version.

Recruitment – slide 11

Hugo – we may see the 2015 recruitment signal in the egg survey of next year

[redacted] – why is the first year so high?

[redacted] – the model estimates this initial R freely and needs a high R to start the system because there's no SSB for the previous year

Thomas – Beverton-Holt S-R relationship is base, but there's wiggle room around this (log-normal dist'n) to let the model adjust to put the fish in that it needs

Mathieu – things being so high, something is intriguing. Besides it also matches a period of time when the model, we see we had a tendency to show more catches including the American data.

[redacted] – always wondered, we tried with American data, other types of recruitment, random, I tried different, the first year, we've always had these peaks. Interesting.

Thomas – what would happen if you started model in 1975? If the peak is still there, would be a product of model or would it vanish.

[redacted] – have not tried this

[redacted] – in redfish models, does the same thing. Can't explain why this happens.

Thomas – this happens far enough in the past that by the time we are in the period where it matters for current stock status, no longer impact.

Slide 13

Mathieu – can you show us in this graph where American values were added?

Thomas – [redacted]

Thomas – going to slide 24 of yesterday – back in 2009, the landings in NL are in the time series, before 2000 were less than 10% of overall catches, but the majority in 2005-6, the overall result. This is when Canadian landings went up tremendously. Clearly the arrival of this fleet in

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4R has multiplied the landings by 3-4. But, it is also the point of time when the 1999 cohort showed up and made it easier. Else wouldn't have been profitable. The landings went to 55000 in a short period of time. So, the other regions didn't change that much. The American catches also went up, benefited from 1999 cohort.

Industry – NL – yes this makes sense. The fish were there in big numbers to be caught.

Thomas – prior to 2000, was there any effort at all on mackerel?

Industry – NL – yes.

Thomas – those fish came from 1999 cohort. But right now, we don't see the new fish you are seeing in our indices yet.

Industry – NL – some years they show up, lots of them, other years they don't, cycle.

Industry – QC – is there any link between fishing effort and biomass that was there, and also new methods of fishing, e.g. tuck seine? So effort increased 4x?

Industry NL – we've probably increased, 20 tuck seines in fleet, some have made bigger boats, so there is potential to take more fish and faster.

Lecture - [redacted] – Microchemistry Data on Stock Origins

[redacted]

Return to Assessment

Slide 15

Thomas - Note that the LRP is wrong on the slide, should be 103,000 t so it doesn't include the unusually high R of the first year of the model.

Hugo – so from one year to the next, would retrospective pattern change this LRP? Makes it relative?

Thomas – so because the past recruitment is being changed over the years, the point of reference changes more than expected? The first step is to see to what extent the retrospective pattern affects recruitment.

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Thomas – the average recruitment, if I take the actual number of fish, this is what I use. To be more robust, we'll be using recruitment references on which we can't really rely.

[redacted]- on East coast like to have absolute LRPs, West Coast gets beyond that. We have a Fisheries Checklist. We will have to give a value in tonnes. Keep for two years.

US – common issue. The value has as much to do with assessment framework, importance of communicating to stakeholders.

Hugo – reference for cod, no retrospective pattern for cod

Thomas – so we can mention this relativity

Ian – this is something that has to be said, RPs have changed anyway, Ottawa is used to seeing moving targets, we need to use those RPs to explain phenomenon, its an approximation.

Thomas – side 16 is not impression of industry but this is the data we have

Slide 17

[redacted]– always an average F from 1 to 10

Ian – is it weighted by number

Thomas – the mortality is applied to the future

Ian – it works with the age structure?

[redacted]- it is always multiplied by the age specific selectivity

Ian – weighted by strength of cohort?

[redacted]- age-structured model though, the F by age is then applied to matrix of abundance of the next year

[redacted]- so single F value is the fully selected F, multiplied by selectivity. Max F is fully recruited F.

Ian – F average for one year, F of all ages, weighted by the cohort strength? Because age structure is varying across years?

Thomas – points of reference do not rise from F, they arise from 40%

[redacted]- in terms of this advice, F will be based on catches.

Thomas – to do projections, the F will remain constant. We are limited to 2 years and limited in ability to understand recruitment in the past. So we have to assume no huge recruitment in the past.

Hugo – so will be done as a table? Let's say F 0.1 to 1.0. And percentage prob over LRP?

Thomas – we deal with 2 year thing, so that way for maturity, but the influence will be felt

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s.19(1)
s.21(1)(b)

Hugo – we still need to provide input to management

Thomas – go over 0.3, we compromise the reestablishment and the catches. Management asked about uncertainty. As soon as we go past 2 years, we don't know. We have to formulate, we can't just supply a table. In the bullets we need to have something to say that 0.3 F then we compromise the recovery

[redacted] - we have talked a lot about unreported catches, we can say a given TAC will provide mortality

Thomas – we are talking about total catches here – The F selected by management and the non-declared catches because we don't really know what the non-reported data is. WE can only rely on the model and it is an estimation. The non-declared is about 1.5 x the catches.

[redacted] - so 0 TAC is still a positive F. We need to find a way to express that.

Thomas – in that type of scenario, North Sea, throwbacks (?) not a new way to assess this although maybe new to this stock

Hugo – the way the scenarios go, the TAC would change, will the management have a different TAC for two years? Should we instead look at TAC versus F

Martin – [redacted]

Thomas – [redacted] we can modify the way we do this, we can impose TAC instead of F, then F evolves.

Hugo – if I were management – if I listened to Martin, can we have a TAC changing every year?

Martin – TACs determined one year at a time

[redacted] – for management may be easier to work with tonnes

Ian – is it true we will not have a proportionally approach for the stock

Thomas – LRP is first step

Ian – [redacted]

Martin – we are providing F scenarios

Ian – [redacted] Usually 0.1, sometimes 0.2.

[redacted] – did management ask for precise scenarios, then we can answer questions this way

Thomas – [redacted]

[redacted] RM – we need to decide a TAC to rebuild the stock. We need realistic scenarios. We want to decide how fast to rebuilt. We need the TACs range that will do this. [redacted] Our objective is to rebuild the stock.

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Thomas – this makes sense, but hard with 2 year projection, can't rebuild in two years. We can present % prob above LRP/Blim and ratio to 2015. We could also show a degree of risk of falling to certain level.

[redacted] - can we express as closeness to Blim?

Thomas – as ratio to Blim, yes. Closer to 1 the better.

[redacted] - US – why are we constrained to two years for rebuilding scenarios? And then look at risk over 1-2 generations?

Thomas – we could, for many species, but for unpredictable recruitment, and here we depend on being lucky to rebuild.

[redacted] - US - do you resample from recruitment relationship to project?

Thomas – we could do that, but we have been using past few years. If we do this long term, we could try this. Is where F comes in over time.

[redacted] – although we do decide TAC every year, if science advice doesn't change, last year we rolled it over.

Martin - [redacted]

Thomas – the consensus is a table with a range of TACs (total), the corresponding Fs for the next two years, and the measures of the ratio of 2019/2015, and the probability of reaching Blim, and maybe another measure of current stock size. [redacted]

[redacted] why we don't have a PA approach? We agreed on LRP, [redacted]
[redacted] The two year horizon, what Dave said, can be good to put things on long-term.

Thomas – don't see why we can provide both. [redacted]

Ian – even though we don't have a formal PA approach we can use the limits. [redacted]

Thomas – [redacted]
We should be sampling from observed recruitments but not the entire past range. Given that one of the strongest R's we've seen was when the stock was low... we can take that portion of the stock relationship plot and just sample from what we've observed for SSB ... (?)

Ian – in NL, a 12-year cycle on average, from 50's to 80's. That frequency went to 20 years in one jump. [redacted]

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[redacted] if we do use when SSB is below this threshold, pick from distribution X, that would help accommodate some of this uncertainty.

Thomas – agreed, [redacted]

[redacted] – agree [redacted]

Thomas – BL asked for incentives to rebuild the stock.

Industry QC – we have been here 2 days, we are relying on figures. [redacted] I hope you will ask management to improve monitoring, put cameras on boats, etc.

Thomas – [redacted]

Daniel – could sample recruits/spawner, catch that comes out of F versus undeclared, emphasize that the more we know about catch the better for the fishery

[redacted]

Slide 22

Stephane – are we talking about a change down, or any change?

Martin – next year, your egg index, when do you have it?

Thomas – egg results in fall, however, to go to index, we also need biological data from fishery, so we would know in winter.

Martin - [redacted]

Hugo – did groundfish two weeks ago, also impossible to do in an interim year. We are on two year calendar and have to live with it.

Thomas – [redacted]

Hugo – [redacted]

Hugo – on cod, we said we'd might have triggering events, piece of paper to management

Martin – we still don't' have landings before Feb

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s.19(1)
s.21(1)(b)

Hugo – I am talking about a fall document. Not a full assessment, not possible.

Thomas – so we are putting into bullet?

Slide 23

Antoine – C&P has told us catch of small fish are very high. Can only keep 10%. Mortality is very high. So question whether that is still needed?

Thomas – [redacted] the consensus is that we are quite aware that min size requirements can cause mortality, but it allows at least 50% of fish to spawn at least once. [redacted]

Martin – [redacted]

Industry QC – I want to be clear here, the fishery people are not asking this [redacted]

Stephane – in terms of small fish, have you observed this in the past? In 1999?

Martin – I think so, 50-60% one year olds.

Hugo – we have to be careful with words – legal?

Antoine – [redacted]

Hugo – is it legal size or fishery behaviour that makes mortality?

Industry NL – reports of catches of up to 90% small fish, 95% of our fishery is overnight. As soon as you see small ones you let them go. We have a clean fishery.

Thomas – the 90% small fish comes from QC this year, with jiggers? Mechanized lines. The seiners are able to do a better job of small fish avoidance.

Mathieu – last point that was mentioned, this work has been done already, simulations. I think it is very simple to adjust selectivity curve. And get an idea of impact if the small fish quantity was doubled, tripled, etc.

[redacted] Should be included in uncertainty. [redacted]

Industry QC – we are seeing more small fish than in a long long time

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Julie Marentette

[redacted]

Martin – [redacted]

[redacted] – if you use strong terms, and eliminate weak explanations

Ian – we should not

Hugo – [redacted]

Thomas – [redacted]

Hugo – [redacted]

Thomas – is it possible to talk about catches that would create a greater possibility of re-establishment

Mathieu - problem is to produce the table with the %

Hugo – but what does PA approach say?

[redacted] this is management role

Industry – NL – hard to understand, we think 40 to 50 000 tonnes possible last year. [redacted]

Thomas – [redacted]

Ian – also what is seen in one area, not true of all of eastern Canada and US. All these fish are shared

Industry QC – request for science in two years [redacted]

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Patterson, Pauline

De: Rivierre, Antoine
Envoyé: March-08-17 9:03 AM
À: Richard, Josée
Objet: TR: Atlantic Mackerel Advisory Committee / Comité consultatif du maquereau de l'Atlantique
Pièces jointes: AMAC_Agenda-fr.pdf

Bonjour José,
L'as-tu reçu ?

Antoine

De : Browne, Ryan
Envoyé : 7 mars 2017 15:26
À : Rivierre, Antoine
Objet : RE: Atlantic Mackerel Advisory Committee / Comité consultatif du maquereau de l'Atlantique

Bonjour,

Ci-joint l'ordre du jour de l'AMAC en français.

Merci,

Ryan Browne

Administrative Assistant, Resource Management
Fisheries and Oceans Canada / Government of Canada
ryan.browne@dfo-mpo.gc.ca / Tel: 613-991-1833

Adjoint Administratif, Gestion intégrée des ressources
Pêches et Océans Canada / Gouvernement du Canada
ryan.browne@dfo-mpo.gc.ca / Tél. : 613-991-1833

From: Rivierre, Antoine
Sent: March-06-17 3:54 PM
To: Browne, Ryan
Subject: RE: Atlantic Mackerel Advisory Committee / Comité consultatif du maquereau de l'Atlantique

Bonjour
Est-ce possible d'avoir l'ordre du jour de l'AMAC en français ?

Merci d'avance

Antoine

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Antoine Rivierre

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Government of Canada Gouvernement du Canada

Canada

De : Browne, Ryan
Envoyé : March-06-17 3:24 PM
Objet : Atlantic Mackerel Advisory Committee / Comité consultatif du maquereau de l'Atlantique

SENT ON BEHALF OF BRIAN LESTER, CHAIR, ATLANTIC MACKEREL ADVISORY COMMITTEE (AMAC)
ENVOYÉ DE LA PART DE BRIAN LESTER, PRÉSIDENT, COMITÉ CONSULTATIF DE MAQUEREAU ATLANTIQUE (CCMA)

Hello All,

Attached please find the agenda as well as a copy of the previously sent invitation for the Atlantic Mackerel Advisory Committee meeting, taking place Thursday, March 30, 2017 in Halifax at the Delta Halifax Hotel, 1990 Barrington Street, Scotia Square, Halifax, NS. (902) 425-6700).

Please note that there are rooms blocked at the hotel until March 14th should you require accommodation.

Bonjour à tous,
Veuillez trouver ci-joint l'ordre du jour ainsi que l'invitation originale pour la réunion du Comité consultatif de maquereau de l'Atlantique qui aura lieu le 30 mars à l'hôtel Delta Halifax, 1990 rue Barrington, Scotia Square, Halifax, N-E (902) 425-6700.

Veuillez noter qu'il y a des chambres réservées à l'hôtel d'ici le 14 mars si vous avez besoin du logement.

Thank you,
Merci,

Ryan Browne

Administrative Assistant, Resource Management
Fisheries and Oceans Canada / Government of Canada
ryan.browne@dfo-mpo.gc.ca / Tel: 613-991-1833

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COMITÉ CONSULTATIF DU MAQUEREAU BLEU
ORDRE DU JOUR
Delta Halifax, 1990, rue Barrington
Halifax (Nouvelle-Écosse)
Le 30 mars 2017 (de 9 h à 16 h)

Le 30 mars 2017		
9 h	Accueil et mot d'ouverture/Tour de table	15 minutes
9 h 15	Sécurité en mer Zones de protection marine	20 minutes
9 h 35	Présentation par le Secteur des sciences • Résultats d'un sondage envoyé aux pêcheurs sur les prises non déclarées • Évaluation des stocks • Collaboration avec les États-Unis sur l'évaluation des stocks	60 minutes
10 h 35	**Pause-café**	15 minutes
10 h 50	Questions et réponses	20 minutes
11 h 10	Considérations liées à la gestion • Total autorisé des captures pour 2017-2018 • Surveillance de la pêche commerciale et de la pêche de poissons-appâts	50 minutes
12 h	**Dîner**	75 minutes
13 h 15	Considérations liées à la gestion (suite) • Délivrance de permis/ Accès • Taille minimale • Permis de pêche récréative marine / Autres changements réglementaires •	75 minutes
14 h 30	**Pause-café**	**15 minutes**
14 h 45	Considérations liées à la gestion (suite) • Autres	30 minutes
15 h 15	• Cadre de l'approche de précaution / Plan de rétablissement • Réponse à la Vérification de la Commissaire à l'environnement et au développement durable • Groupe de travail sur la mise en place d'un plan de rétablissement • Mise à jour sur le Plan de gestion intégrée des pêches (PGIP)	30 minutes
15 h 45	Mot de clôture	15 minutes

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Cormier, Mélanie

De: Waters, Christa
Envoyé: 8 mars 2017 11:12
À: Lester, Brian; Cawthray, Jenness; Dunne, Erin; Rivierre, Antoine; Mallet, Pierre; Doniol-Valcroze, Thomas; Castonguay, Martin
Objet: Maritimes Mackerel landings

Hello,
I have followed up with our CDD on insuring we can get the landings data for mackerel. If we get it soon, will science be able to update the assessment in time for the AMAC?
Christa

Christa Waters
Regional Senior Fisheries Management Advisor
Resource Management | Gestion des Pêches
Maritimes Region | Région des Maritimes
Fisheries and Oceans Canada | Pêches et Océans Canada
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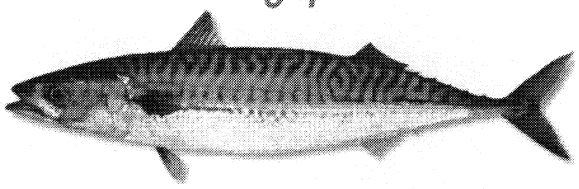
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Pêches et Océans Canada | Fisheries and Oceans Canada

Évalution du stock de maquereau bleu des sous-régions 3-4/ *Assessment of Atlantic mackerel in subareas 3-4*



8-9 mars / March 8-9, 2017 Mont-Joli

Canada

Pêches et Océans Canada | Fisheries and Oceans Canada

Objectifs / Objectives

- Évaluer l'état du stock de maquereau bleu des sous-régions 3-4
- Pas ici pour débattre des problèmes de gestion ni d'allocation de la ressource
- Revue des sciences, pas une consultation

- *Assessment of Atlantic mackerel in subareas 3 and 4*
- *Not here to discuss issues of management or resource allocation*
- *Science review, not a consultation*

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Pêches et Océans Canada | Fisheries and Oceans Canada

Objectifs / Objectives

- Identifier des questions et/ou des enjeux qui n'ont pas été traités dans les analyses présentées, incluant
  - le déroulement de la pêche
  - les aspects mathématiques et statistiques
  - des faiblesses potentielles dans les données et/ou les méthodes utilisées pour les analyses
- Contribuer à trouver des solutions à ces problèmes.

- *Identify questions and / or issues that were not addressed in the analysis presented, including*
  - *The last fishing season*
  - *mathematics and statistics*
  - *potential weaknesses in the data and / or methods used for analysis*
- *Contribute to finding solutions to these problems.*

Canada

Pêches et Océans Canada | Fisheries and Oceans Canada

Fonctionnement de la réunion / Ground Rules

- Toutes les personnes présentes ont le même droit de se faire entendre
- On s'attend à ce que chaque personne participe et respecte le droit de l'autre à s'exprimer
- S'en tenir au cadre de référence et aux bonnes pratiques scientifiques
- Parler un à la fois, pas de discussion en parallèle

- *Everyone is expected to participate, have the right to be heard and respect the right of others to be heard*
- *Stick to the framework and good scientific practice*
- *One person speaks at a time – do not interrupt and no side-bar discussions*

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Pêches et Océans Canada | Fisheries and Oceans Canada

Fonctionnement de la réunion / Ground Rules

- Remettre en question les idées, non pas les personnes
- Demander des précisions si un point n'est pas clair
- Essayer d'avoir consensus, mais ça ne passe pas par le vote

- *Challenge ideas, not individuals*
- *Request clarification if a point is not clear*
- *Try to get consensus, but it does not go through the voting*

Canada

Pêches et Océans Canada | Fisheries and Oceans Canada

Consensus

Aux fins des réunions d'examen par des pairs du Secrétariat canadien de consultation scientifique du MPO, le terme « **consensus** » renvoie à une **absence d'opposition sur les conclusions et avis avancés d'après les données et les informations scientifiques** présentées et non d'après des considérations externes, comme les impacts potentiels de décisions futures.

*For the purpose of DFO Canadian Science Advisory Secretariat peer-review meetings, **consensus** means an **absence of opposition to the meeting conclusions and advice that are based on scientific data and information** and not on external considerations such as the potential impacts of future decisions.*

Canada

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Pêches et Océans Canada | Fisheries and Oceans Canada

Fonctionnement de la réunion / Ground Rules

- Mettre les cellulaires en mode vibration
- Prendre ses appels à l'extérieur de la salle de réunion
- Respecter le caractère confidentiel des conclusions tant qu'elles ne sont pas publiées officiellement

- *Put cell phones on vibrate*
- *Take calls outside the meeting room*
- *Respect the confidentiality of the results until they are officially published*

Canada

Pêches et Océans Canada | Fisheries and Oceans Canada

Horaire / Schedule

8 mars / March 8		09:00 – 17:00
Pause santé / Break	10:15 – 10:30	14:45 – 15:00
Dîner / Lunch		12:00 – 13:00
9 mars / March 9		09:00 – 17:00
Pause santé / Break	10:15 – 10:30	14:45 – 15:00
Dîner / Lunch		12:00 – 13:00

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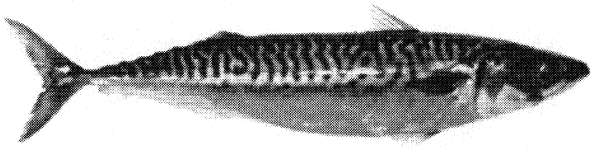
Présentation des participants

Introduction of participants

Canada

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Évaluation du maquereau bleu des sous-régions 3-4 de l'OPANO



Thomas Doniol-Valcroze, Benoît Légaré,
Linda Girard, Mélanie Boudreau,
Elisabeth Van Beveren & Martin Castonguay

Remerciements :

- Sylvain Hurtubise: Données de la pêche et de l'échantillonnage commercial
- Échantillonneur(e)s des régions du Québec, du Golfe, des Maritimes et de Terre-Neuve
- Équipage du Téléost et du Coriolis II
- Stéphane Plourde et Caroline Lehoux: Considérations écosystémiques
- Claude Brassard et Denis Bernier: soutien logiciel de captures à l'âge
- Noël Cadigan et William Aeberhard: soutien développement modèle

Calendrier d'évaluation

- Dernière évaluation: 2014
- Évaluation de 2016 reportée à 2017
- Décembre 2016: revue des intrants (œufs)
- Janvier 2017: revue cadre (modèle)
- Mars 2017: évaluation de la ressource
  - Utilisation du nouveau modèle
  - Mise à jour des données 2013, 2014, 2015, 2016
    - Débarquements
    - Données biologiques
    - Relevé des œufs

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s.21(1)(b)

Résumé de l'évaluation de 2014

- Les **débarquements commerciaux** rapportés des sous-régions 3 et 4 de l'OPANO ont considérablement diminué au cours des dernières années.
- Les **débarquements américains** (commerciaux et récréatifs) des sous-régions 5 et 6 de l'OPANO ont aussi connu une baisse importante au cours des dernières années.
- La **longueur à 50 % de maturité** est supérieure à la longueur minimale de capture autorisée de 250 mm. Le fait que les captures peuvent cibler des poissons immatures représente une pression additionnelle sur le stock.
- La **condition corporelle** baisse depuis 2003 et semble associée à la température de la CIF et à l'abondance/phénologie d'espèces clés de copépodes. Le recrutement du maquereau semble favorisé par de fortes abondances et un développement hâtif du *Calanus finmarchicus*.
- **L'indice d'abondance des œufs** de maquereau a chuté entre 1993 et 1998. Après une hausse causée par l'arrivée de la forte classe d'âge de 1999, l'indice a de nouveau chuté à partir de 2002 pour atteindre les plus faibles valeurs de la série, ce qui reflète l'effondrement du stock.
- Une **analyse séquentielle de population** calibrée par l'indice d'abondance des œufs indique que la **biomasse reproductrice** de maquereau est à la baisse depuis le milieu des années 2000 pour atteindre en 2013 le minimum historique.
- Selon l'ASP, cette baisse de biomasse a été occasionnée par des niveaux de mortalités par la pêche plusieurs fois supérieurs aux niveaux historiques soutenables. Il est probable que le stock soit présentement en situation de surpêche du recrutement.
- Étant donné la **situation critique du stock**, la priorité est à la reconstruction : (1) Selon les projections basées sur une mortalité par pêche moyenne soutenable découlant de l'évaluation analytique, les captures annuelles de 2014 et 2015 ne devraient pas dépasser 800 t; (2) Dans la situation actuelle du stock, il est encore plus important de connaître et de contrôler les pêches pour appât et récréatives.

Cadre de référence 2017

Formuler un avis scientifique pour la gestion du maquereau bleu des sous-régions 3 et 4 de l'OPANO (côte est canadienne) pour les saisons de pêche 2017 et 2018. Cet avis comprendra :

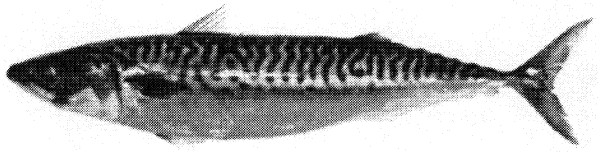
- l'analyse des statistiques de la pêche commerciale des saisons 2014, 2015 et 2016 (distribution globale des débarquements, ventilation par province, division de l'OPANO, engin de pêche, etc...);
- l'analyse des données biologiques recueillies par des échantillonneurs dans les principaux ports de débarquements ou en mer par des observateurs (structure de taille et calcul d'indicateurs biologiques);
- l'analyse de l'indice du relevé des œufs pour les années 2014, 2015 et 2016 ;
- une revue des principales sources d'incertitude;
- des considérations écosystémiques et environnementales ;
- présentation des résultats d'un modèle statistique de captures à l'âge qui inclut des estimations de capture manquante (suite à une revue cadre en janvier 2017) basé sur la capture à l'âge canadienne et l'indice du relevé des œufs. Ces résultats vont inclure les mortalités par la pêche, les abondances et les biomasses reproductrices, la mise à jour des points de référence, la trajectoire du stock et des prédictions de captures pour 2017 et 2018 selon différents scénarios de mortalité par la pêche.
- L'identification des indicateurs et des déclencheurs pour les années intérimaires sans évaluation de stock;
- L'identification et la priorisation de travaux de recherche à considérer pour le futur;
- Les perspectives et/ou recommandations pour 2017 et 2018 basées sur les données disponibles.
- [redacted]

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Bref survol de la structure des populations de maquereau / *Brief overview of mackerel population structure*

Martin Castonguay
IML



Background

- Les stocks de maquereau en Europe sont très abondants. Le CIEM a recommandé un TAC de 773 842 t pour 2016. / *Mackerel stocks in Europe at very high levels. ICES advised that TAC should not be higher than 773,842 t in 2016.*
- Les stocks de maquereau au Canada sont au plus faible niveau jamais mesuré, déterminé en 2014 sous le PRL. Les TAC récents au Canada à 8000 t. / *Mackerel stocks in Canada at the lowest level ever recorded, assessed in 2014 to be below Blim. Recent TACs in Canada at 8000 t.*
- Le maquereau maintenant abondant dans le centre de l'Atlantique (Islande et Groenland): TAC 85 000 t au Groenland en 2015 / *Mackerel now abundant in the Central Atlantic (Iceland & Greenland) : TAC 85,000 t in Greenland in 2015*
- D'où provient ce maquereau du centre de l'Atlantique? / *Where does this Central Atlantic mackerel come from?*

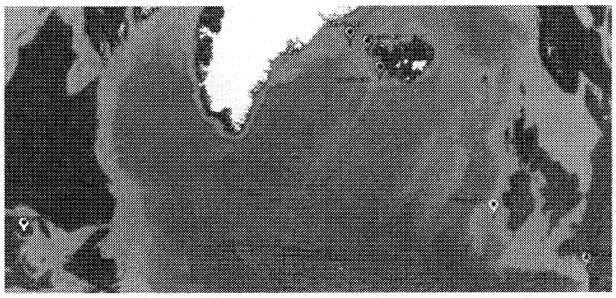
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Background

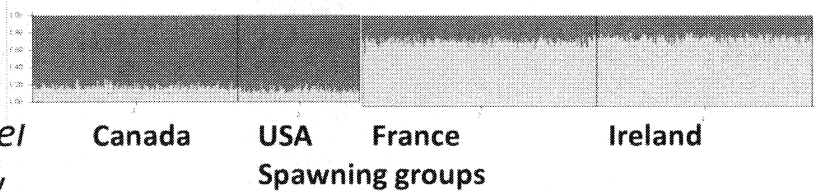
Deux études génétiques-génomiques récentes basées sur l'ADN-mt et les SNP / Two recent studies based on mt-DNA and SNPs:

- Rodriguez-Ezpelata et al. (2016)
- Helyar et al. (2013; in prep)



Europe vs Amérique du Nord

- La population de maquereau de l'Amérique du Nord est génétiquement distincte de celle de l'Europe (ADN-mt)/ *The North American mackerel population is genetically distinct from the European one (mt-DNA)*



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Amérique du Nord

- Les stocks canadiens et américains ne semblent pas distincts génétiquement bien que les études en question incluent peu d'échantillons de l'Amérique du Nord / *Canadian and American stocks do not seem genetically distinct although the studies in question include few samples from North America*

Europe

- Il semble y avoir une structure de stock subtile au sein de la population européenne / There seems to be a weak stock structure within the European population



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Centre de l'Atlantique

- Le maquereau de l'Islande et du Groenland provient exclusivement de l'Europe / *Mackerel from Iceland and Greenland originate exclusively from Europe*

	Canada	Europe	Iceland
Canada	-	0.000000	0.000000
Europe		-	0.075595
Iceland			-

Recherche à venir / Upcoming research

- Collaboration pour améliorer les études génétiques/génomiques / *Collaboration to improve genetic/genomic studies*

- Augmenter le nombre d'échantillons de l'Amérique du Nord / *Increase number of samples from North America*

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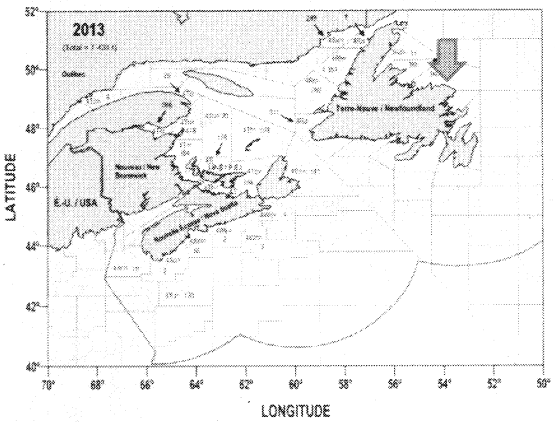
Questions de recherche / Research questions

- Réexaminer avec des outils moléculaires modernes les différences génétiques/génomiques entre les groupes reproducteurs canadiens et américains / Reexamine with modern molecular tools genetic differences between Canadian and US spawning groups

- Déterminer si la population abondante de l'Europe s'est dispersée en Amérique du Nord / *Determine if the abundant European population has dispersed to North America*

Questions de recherche / Research questions

D'où proviennent les jeunes de l'année capturés au nord de Terre-Neuve (3K) ? / Where do young-of-the-year captured north of Newfoundland (3K) come from?



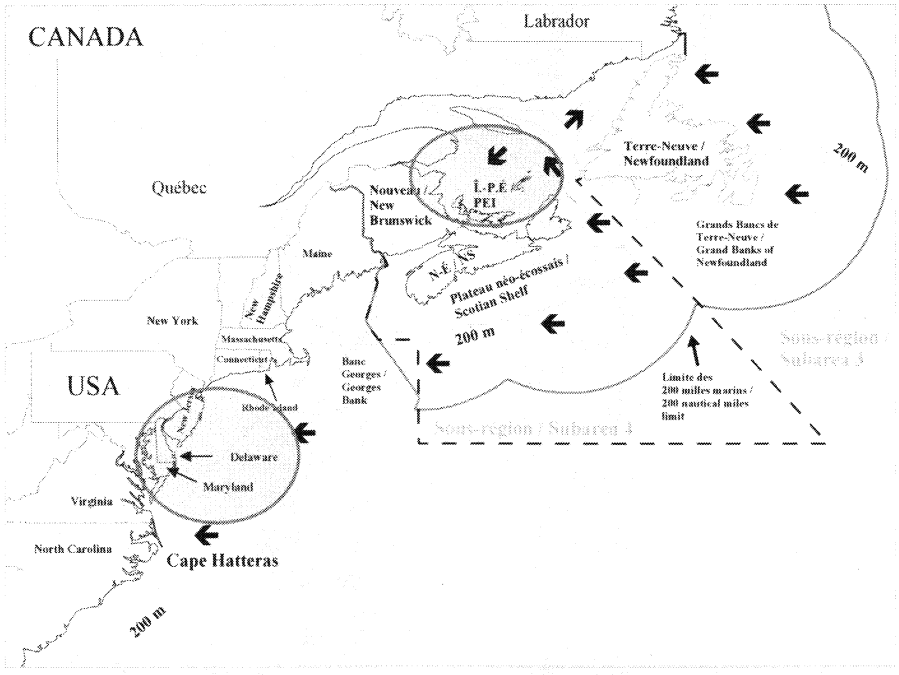
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Biologie

- Pélagique
- Migratrice
- 26 cm après 2 ans = maturité
- Plein recrutement ~3 ans
- « batch spawners » (juin)
- 2 composantes reproductrices
- 1 stock transfrontalier

Distribution et migration



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Problématiques

Prises non-rapportées:

- Maquereau utilisé comme appât pour la pêche au crabe et homard
- Une grande partie des prises ne sont pas rapportées: appât pour usage personnel, ventes de pêcheur à pêcheur, pêche récréative, logbooks non remplis
- Différences entre régions de gestion
- Cela crée un problème **majeur** affectant la qualité de l'évaluation

Considérations environnementales: 2013

- Tendance commune dans les séries temporelles d'abondance des larves récoltées dans le sud du golfe du Saint-Laurent 1983 – 2012

- baisse importante entre 1983 et 1995 suivie d'une période stable jusqu'en 2004; baisse à nouveau observée jusqu'en 2010 suivie d'une légère hausse jusqu'en 2012

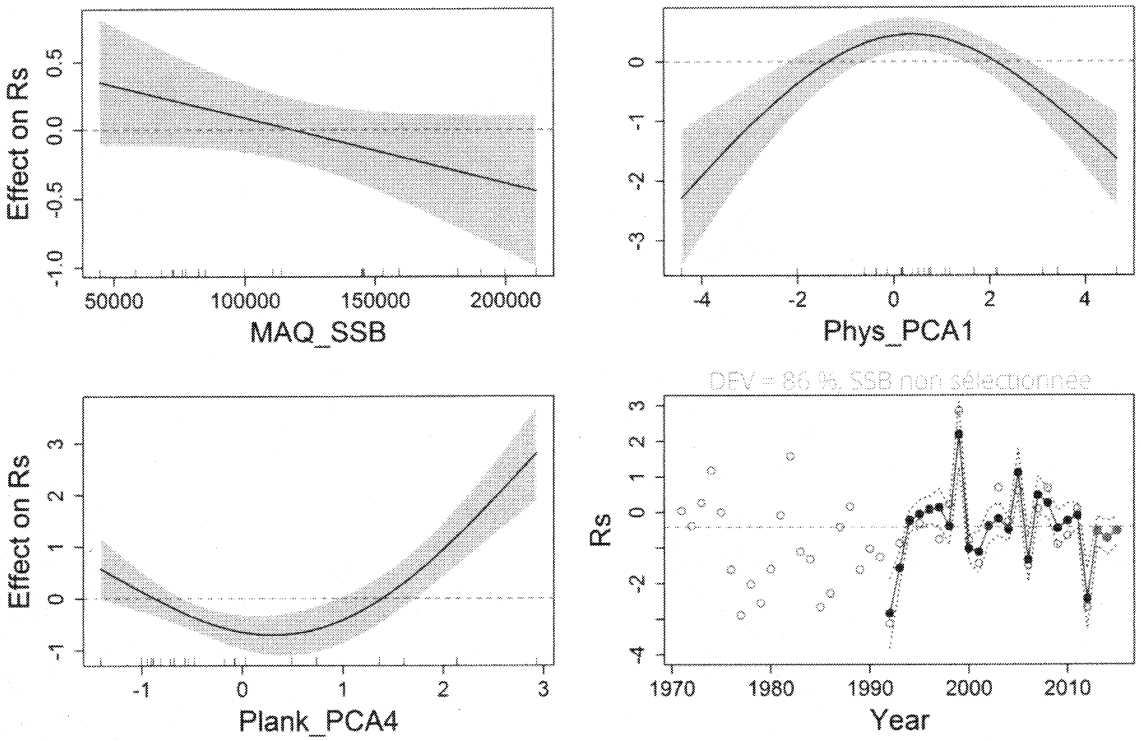
- Les espèces qui sont le plus fortement associées à cette tendance sont la morue, le capelan, la limande à queue jaune, le maquereau et le sébaste (toutes des espèces commerciales...).

- Deux variables explicatives ont été identifiées: (1) la température de la CIF, et (2) l'indice d'abondance du plancton.

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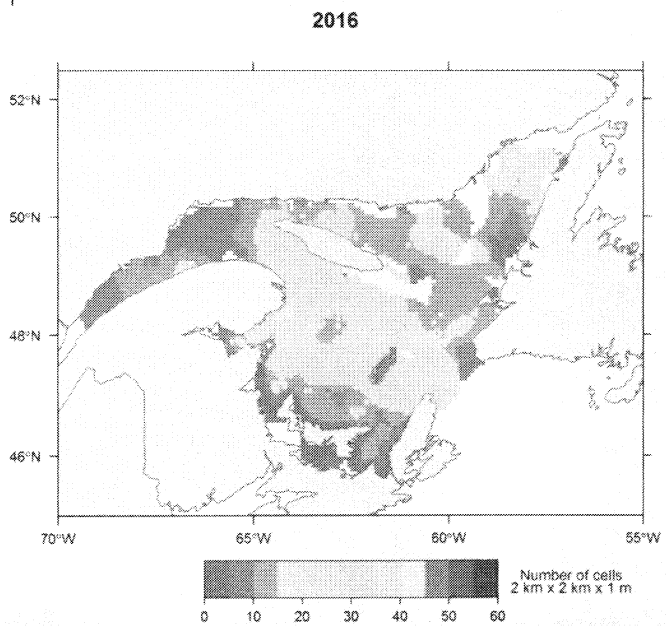
Taux de recrutement (Rs): maquereau



Plourde et al. 2015

Considérations environnementales

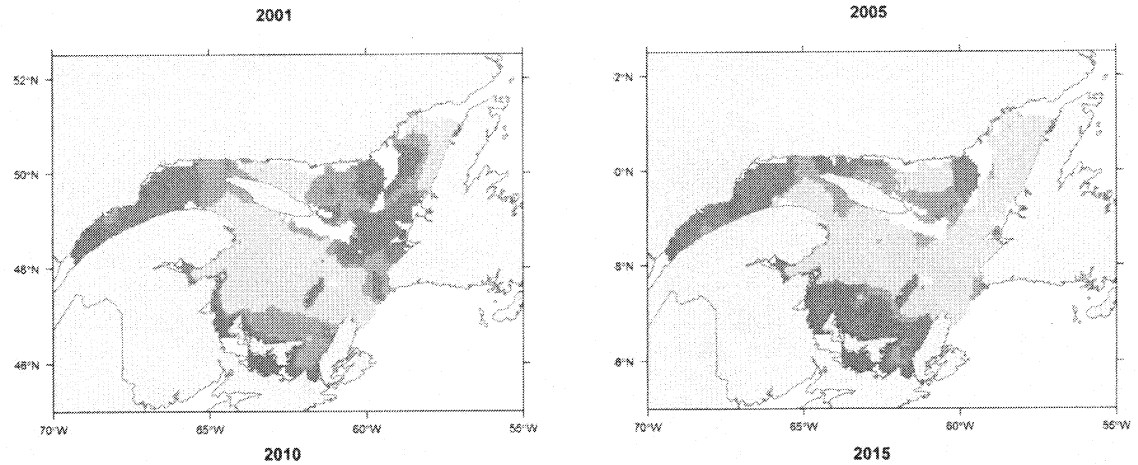
- Lien entre la température et la distribution spatiale, les moments de la migration et de la ponte
- Importance du volume d'eau entre 6 et 16°C (0-100m)

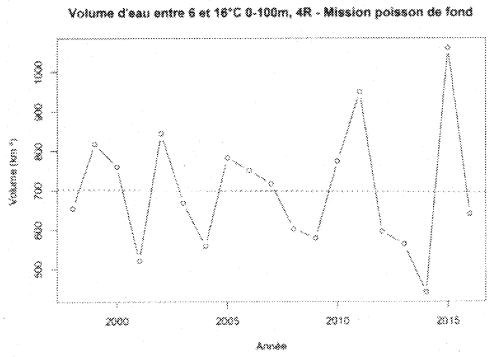


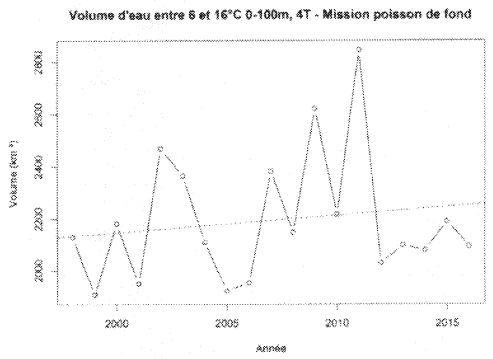
Travaux préliminaires de S. Plourde et C. Lehoux

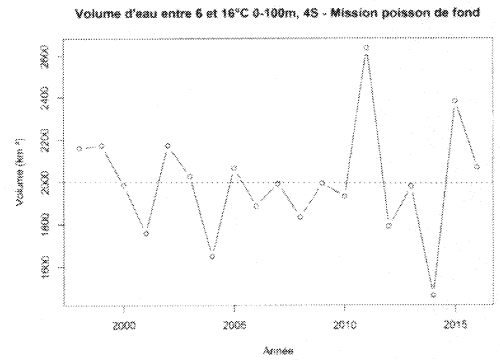
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→ Forte variabilité spatiale et inter-annuelle

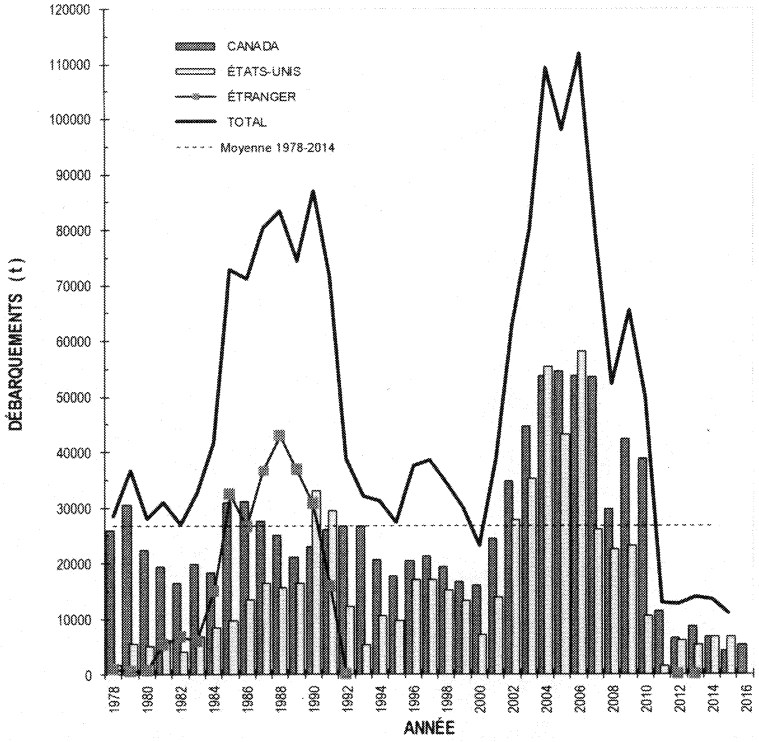
→ Pas de tendance claire entre régions

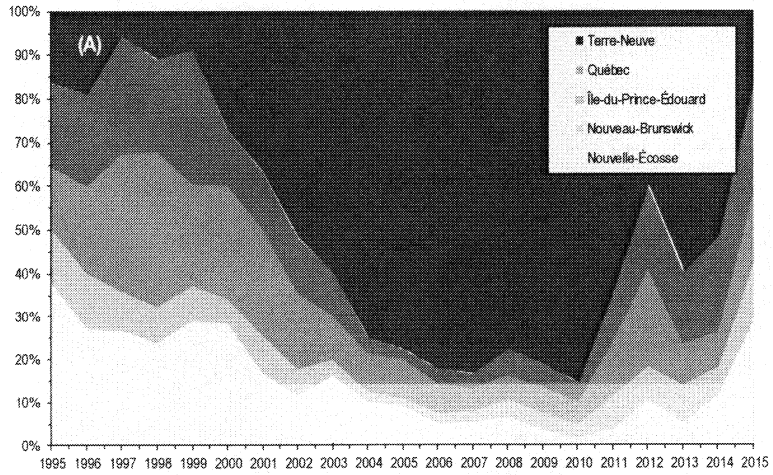
→ Travaux futurs sur la qualité de l'habitat des œufs et des larves (température, disponibilité des proies planctoniques)

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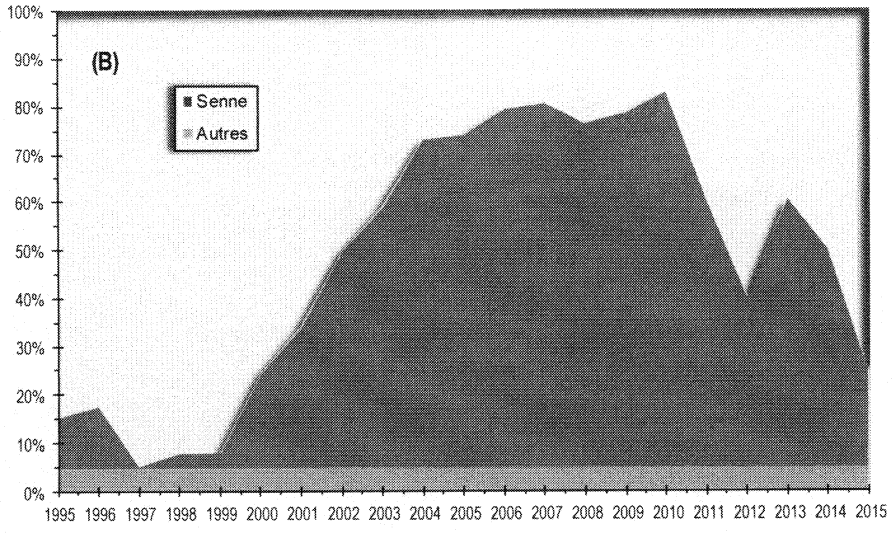
Pêche commerciale 2013-2016

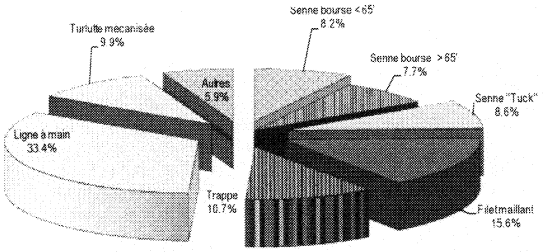


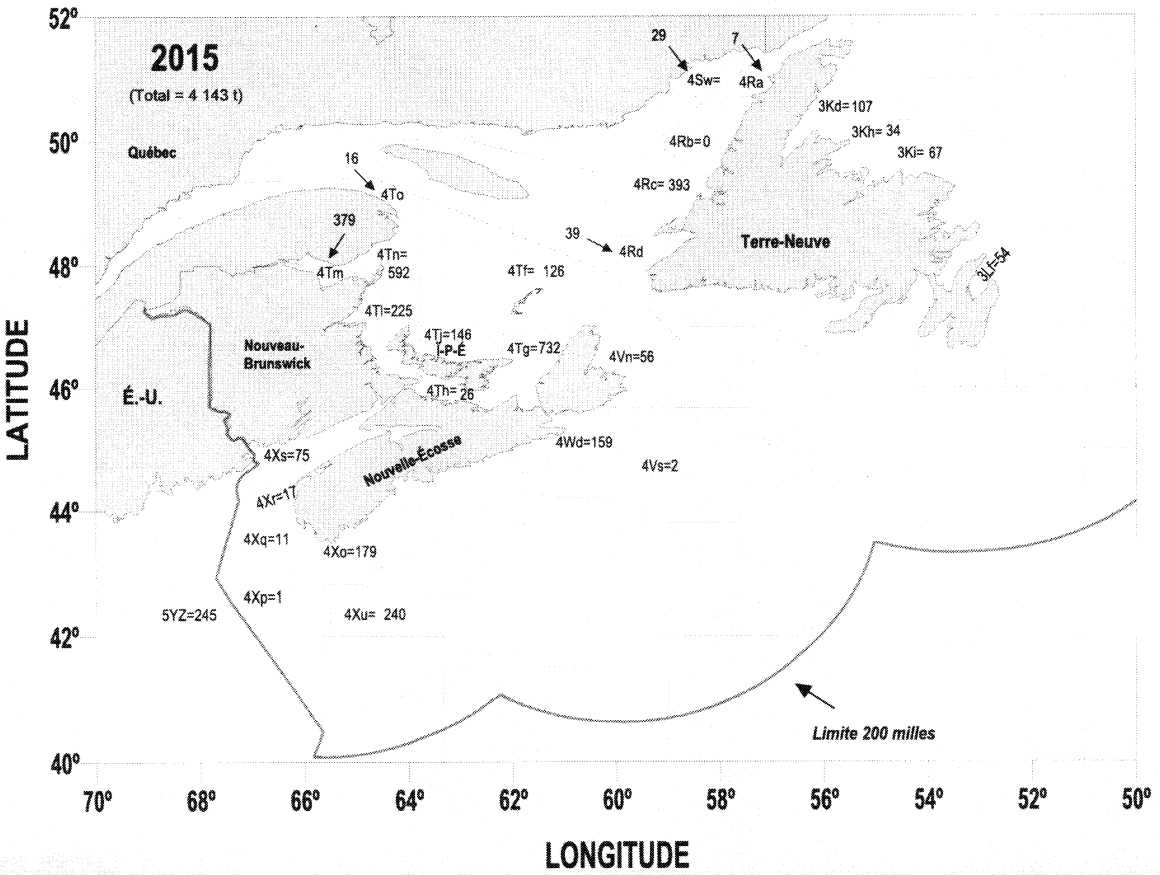


PROVINCE	ANNÉE								MOYENNE
	2009	2010	2011	2012	2013	2014	2015 [1]	2016 [1]	(1995-2014)
Nouvelle-Écosse	1 454	666	416	683	450	770	1183		3 455
Nouveau-Brunswick	1 762	1 260	903	524	766	449	571		1 464
Île-du-Prince-Édouard	2 463	1 959	1 400	1 478	825	527	643		3 541
Québec	2 316	1 709	1 345	1 278	1 453	1502	1045	844	2 756
Terre-Neuve	34 237	33 159	7 337	2 619	5 169	3432	701	4513	17 516
Eaux communes	0.2	0.2	0	0	0	0	0		5
TOTAL	42 231	38 753	11 400	6 582	8 663	6680	4143	5357	

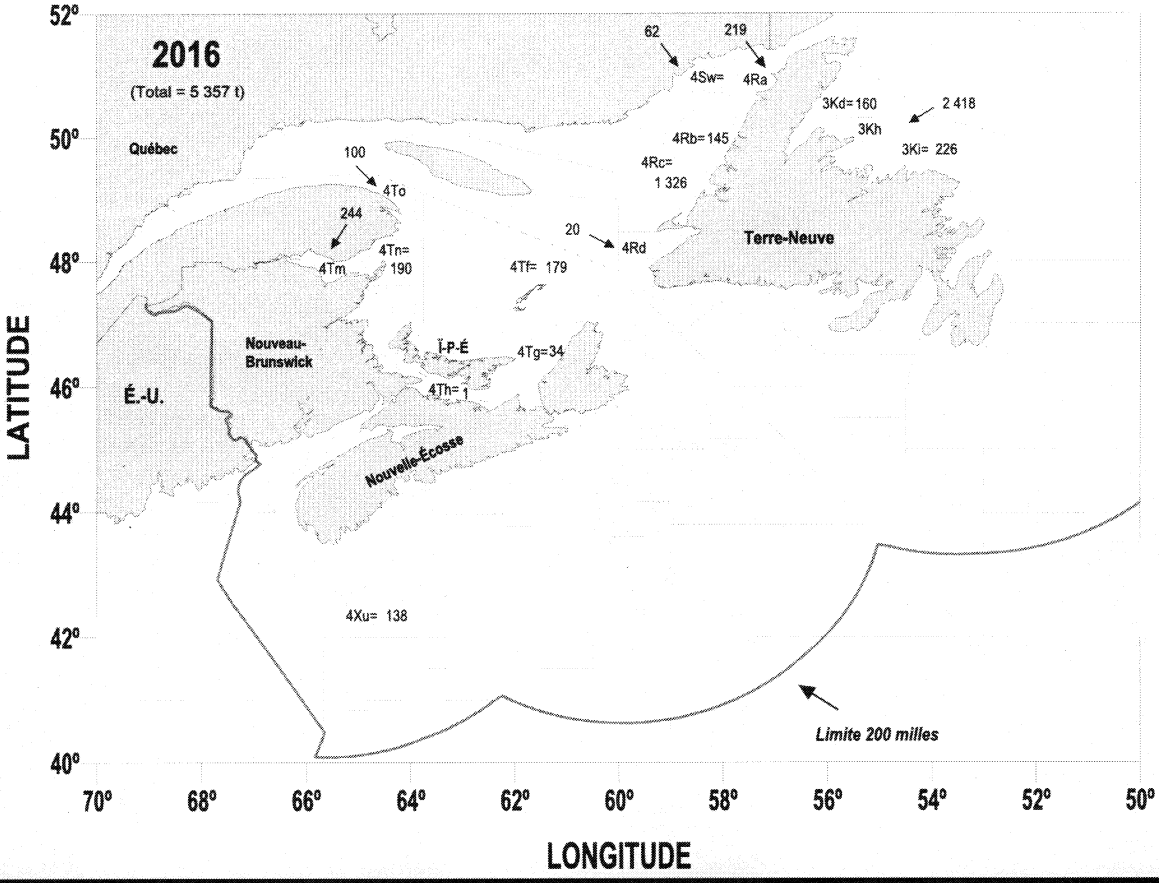
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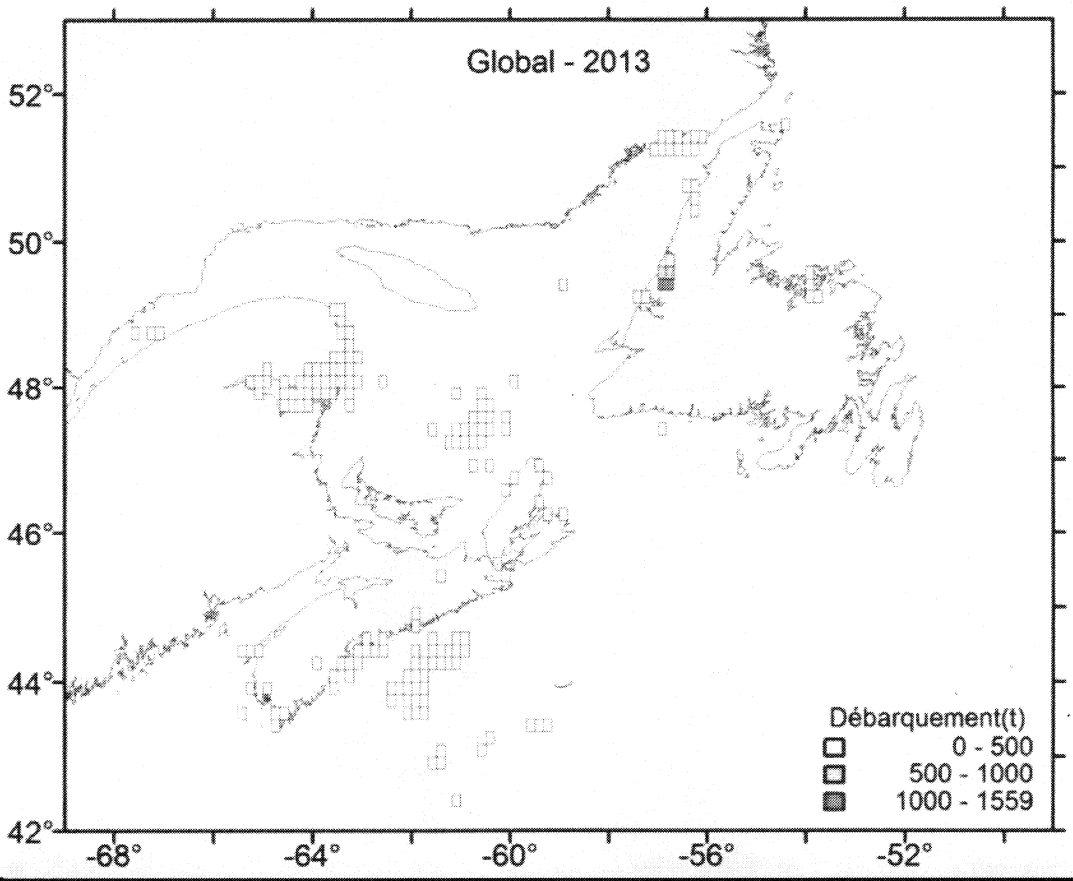






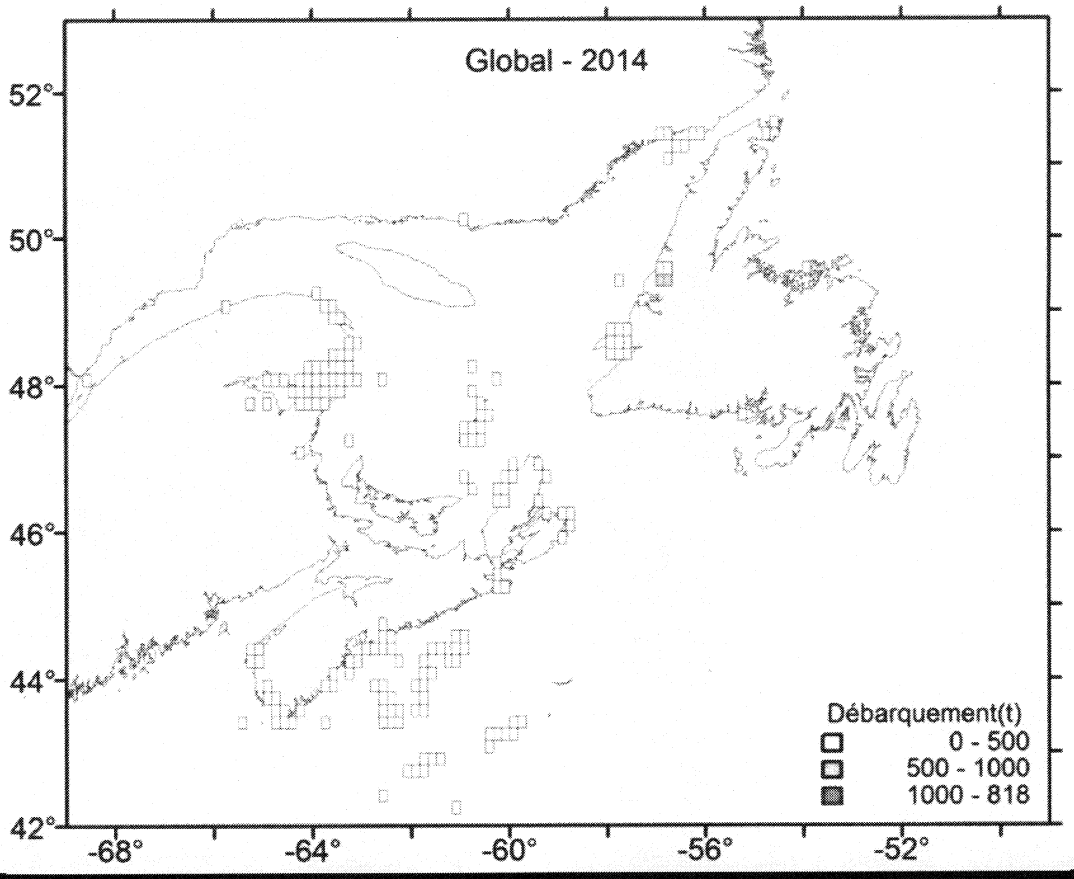
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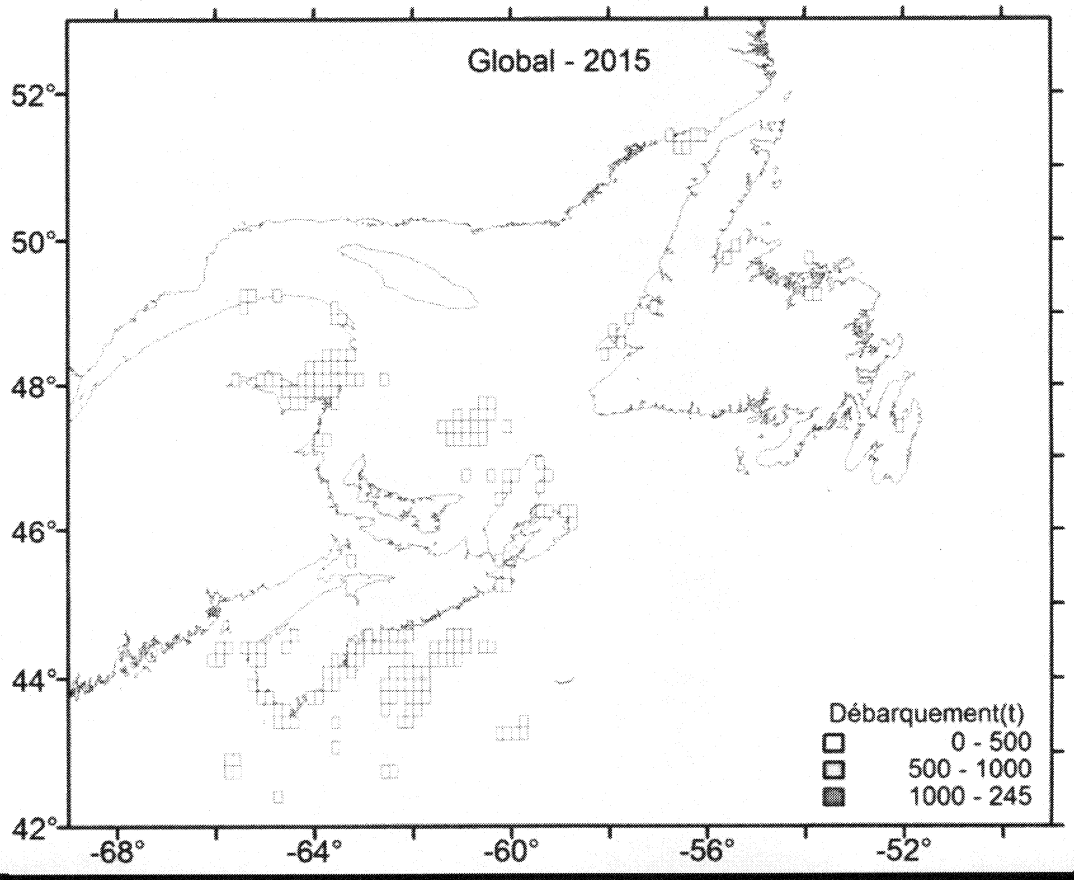




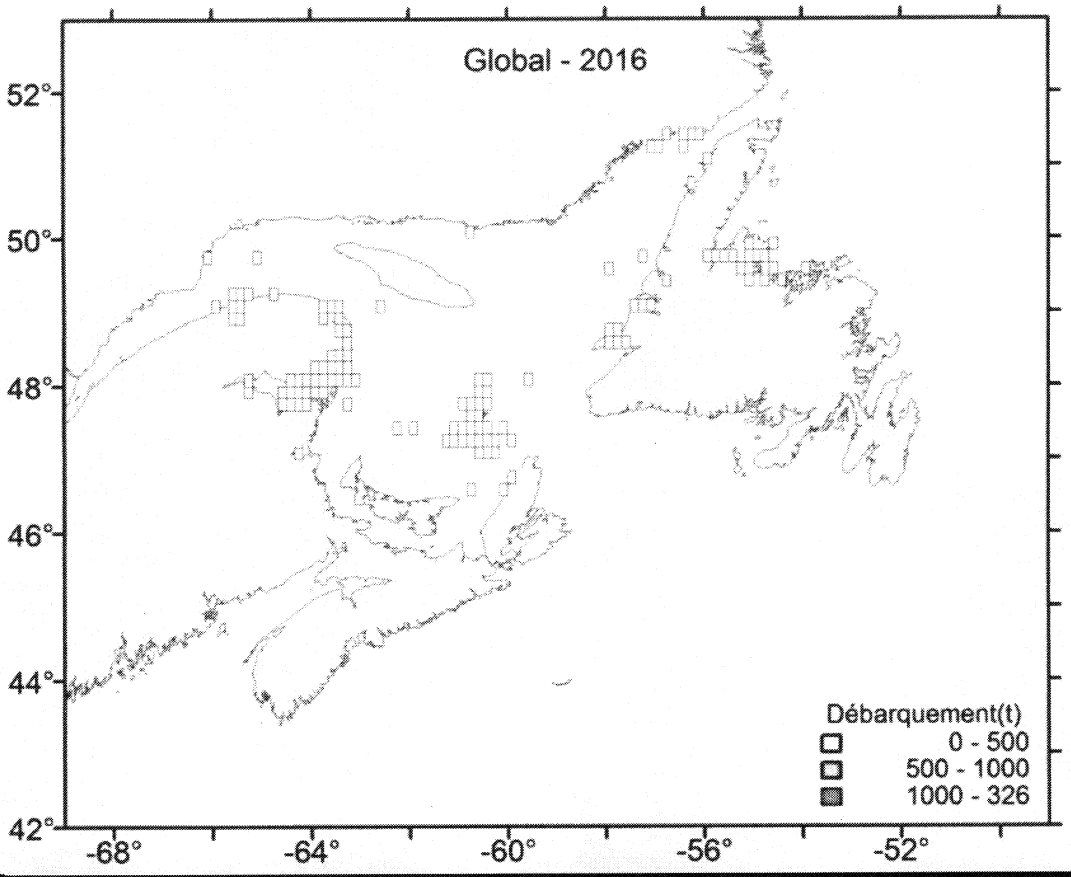
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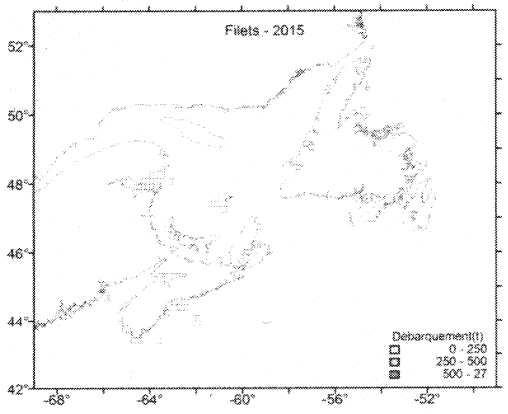
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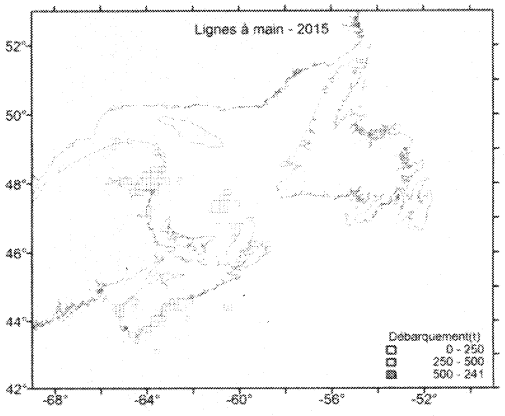


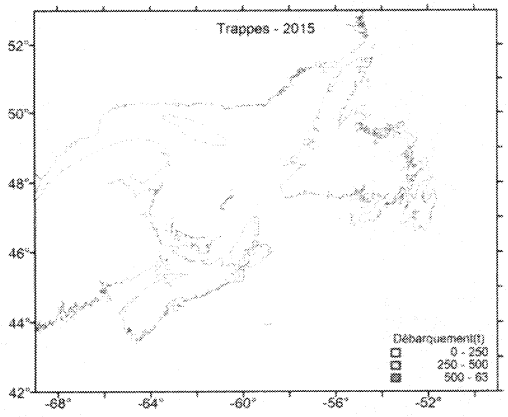


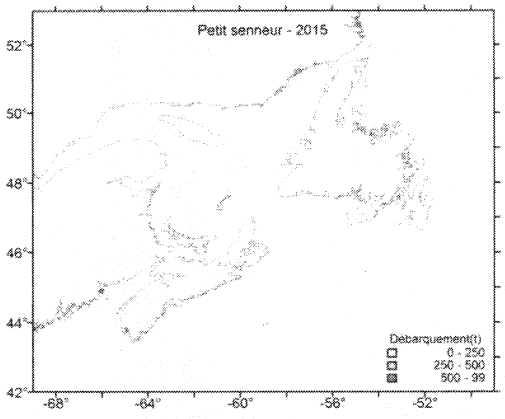
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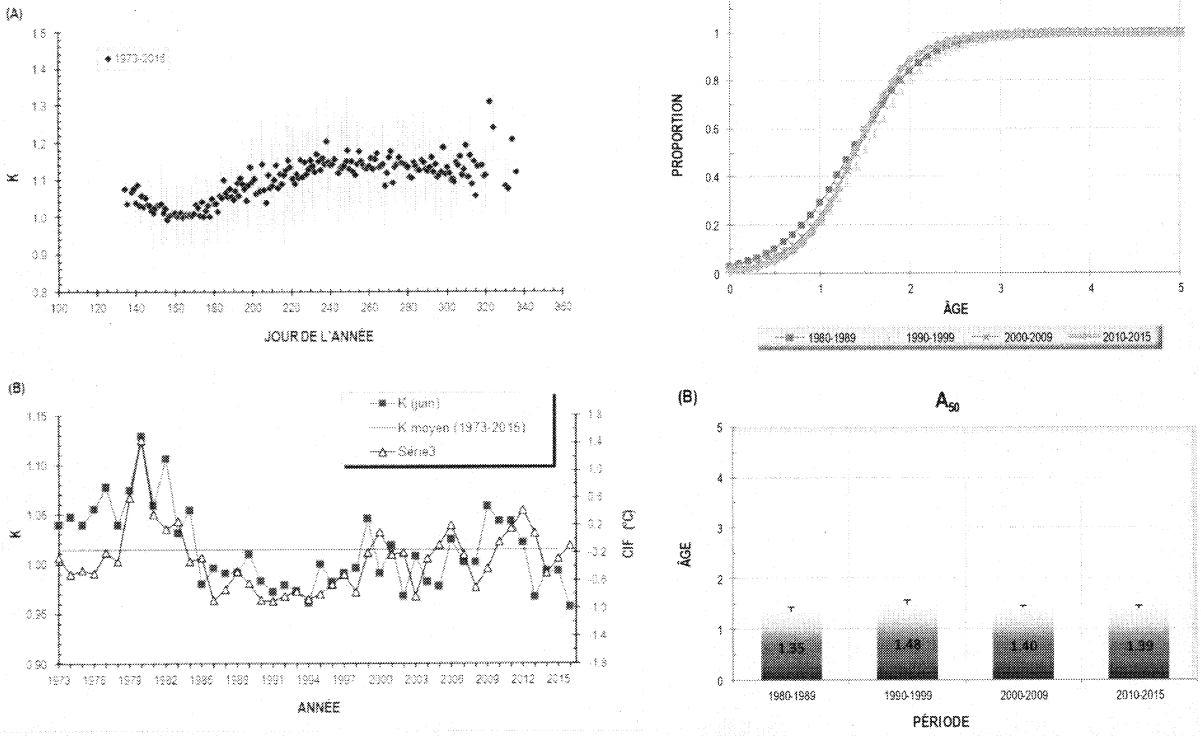




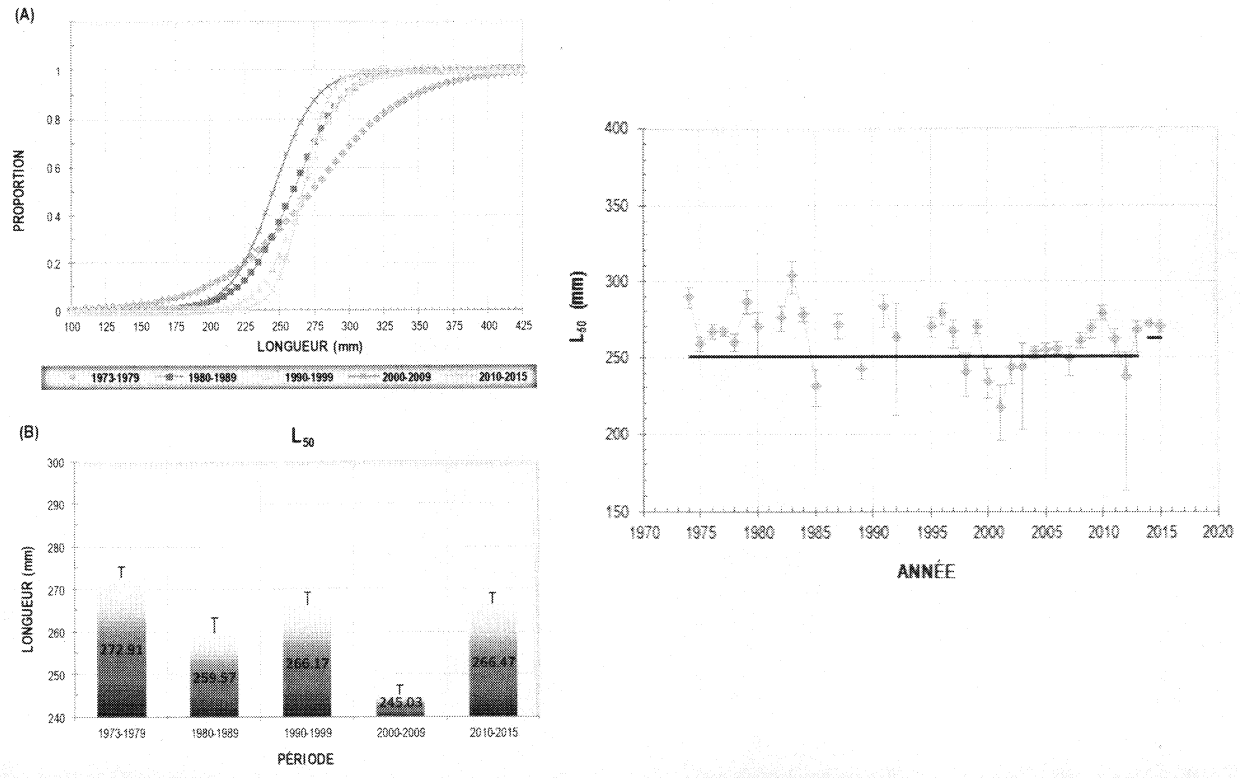
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Indicateurs biologiques 2013-2016



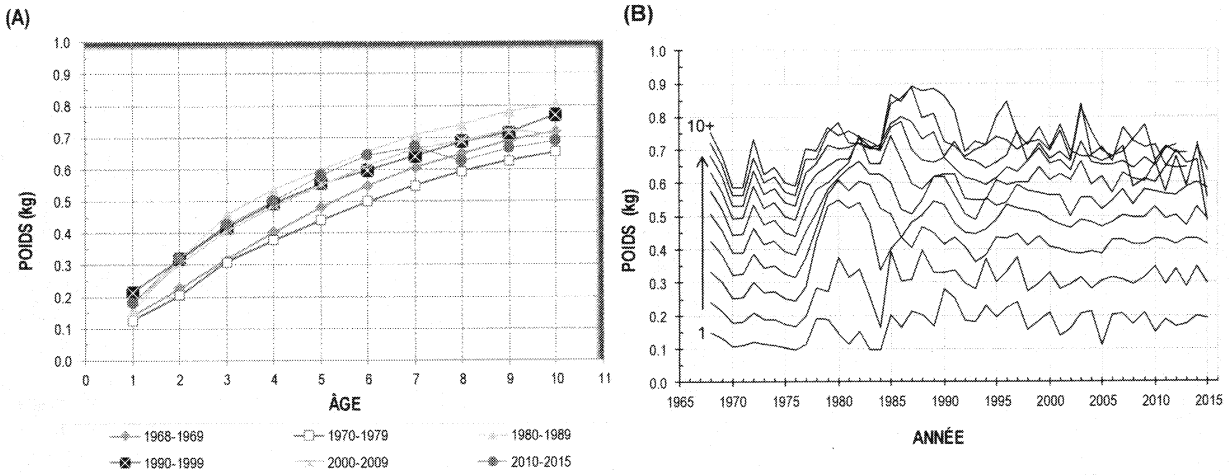
Longueur à 50% maturité



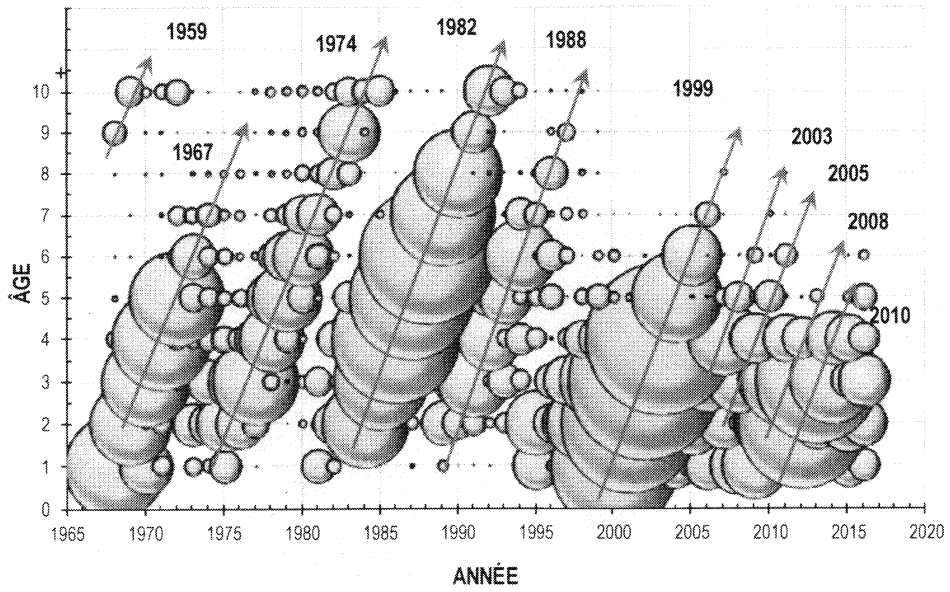
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Poids à l'âge

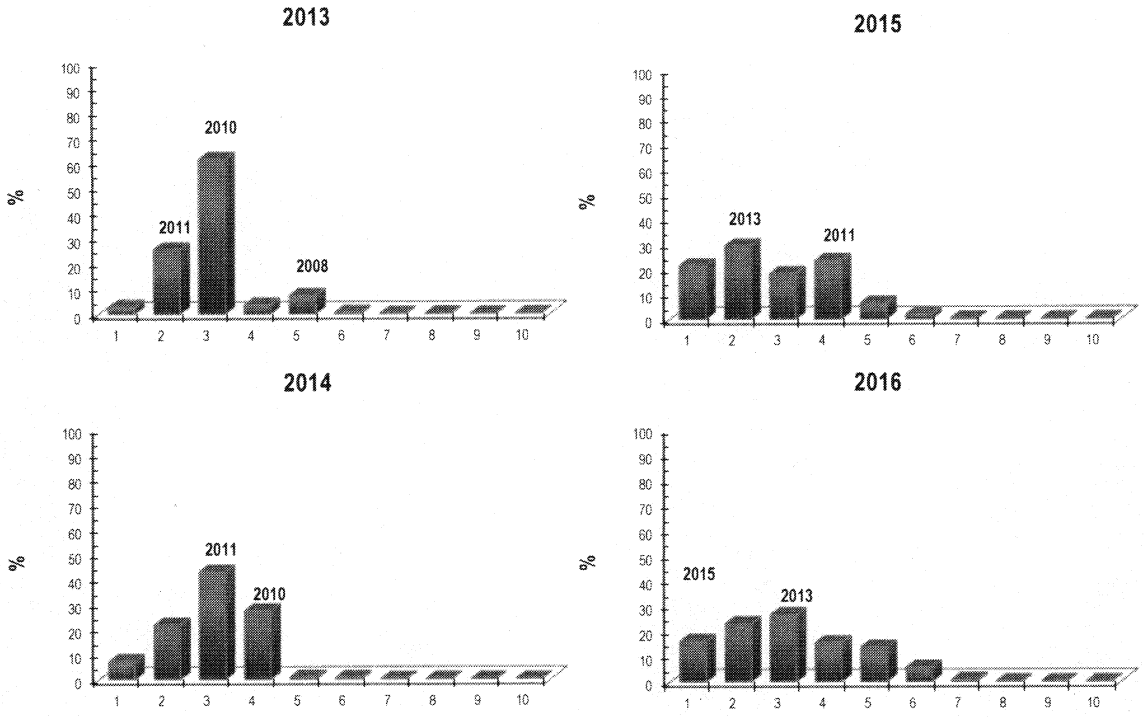


Capture à l'âge

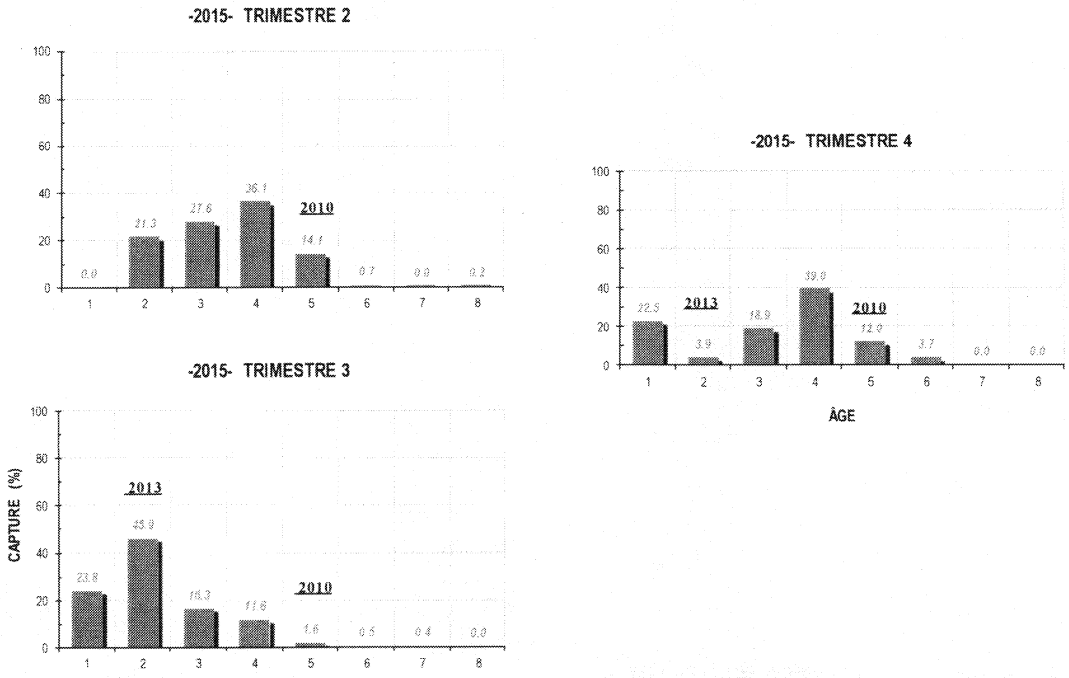


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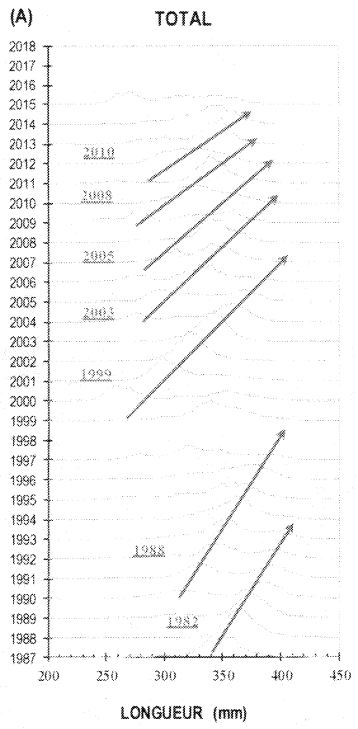


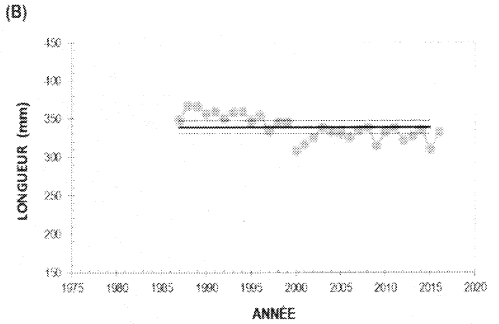
Capture à l'âge: variabilité intra-annuelle

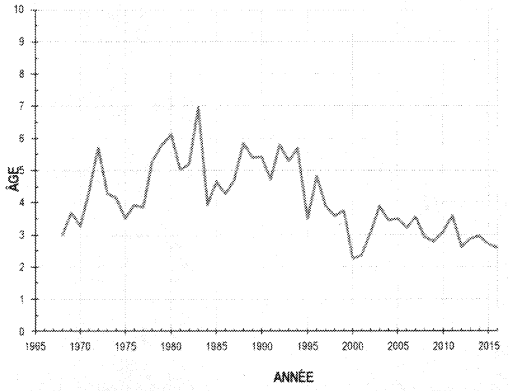


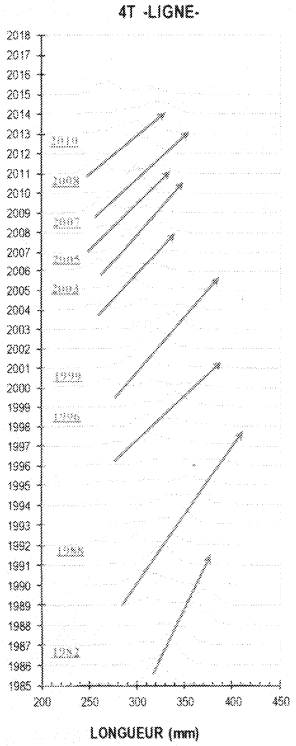
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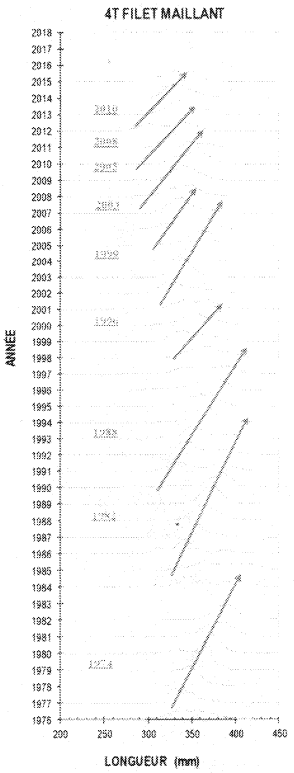
Fréquences de longueur

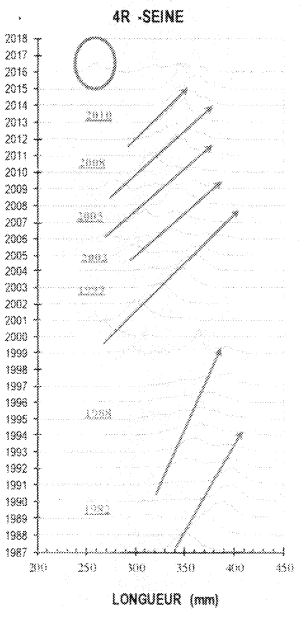


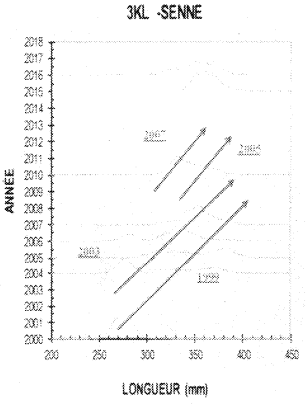








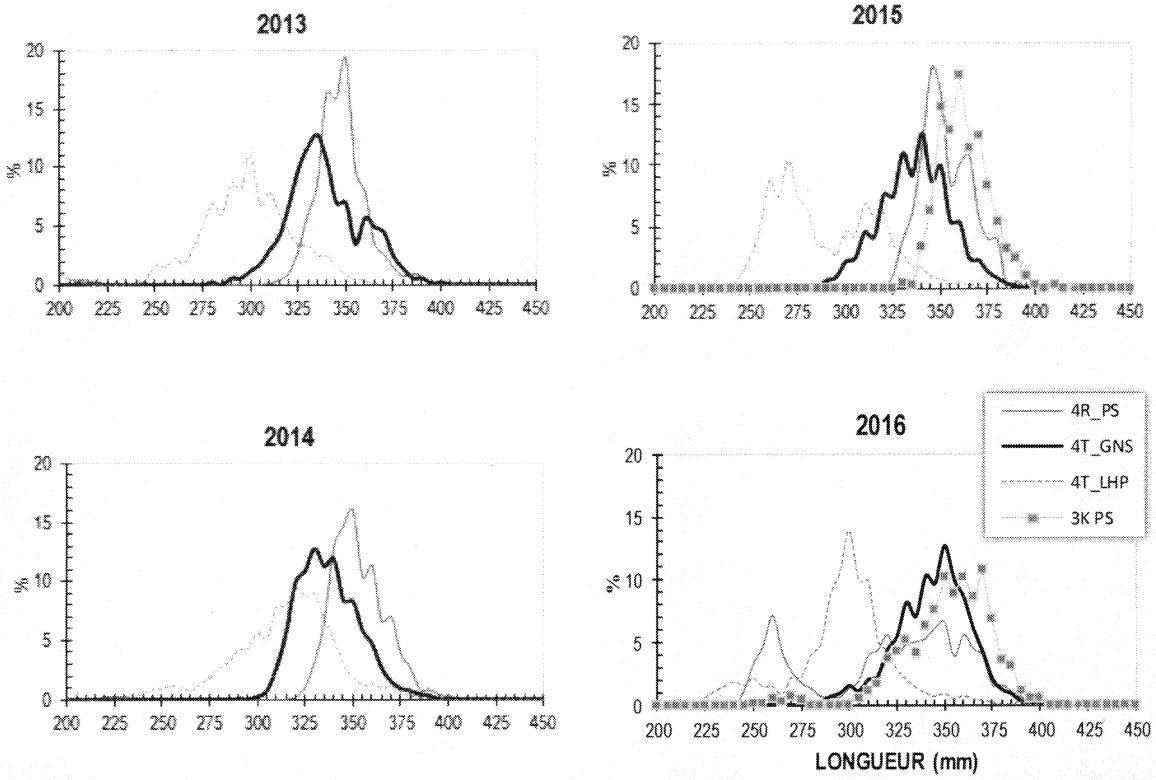




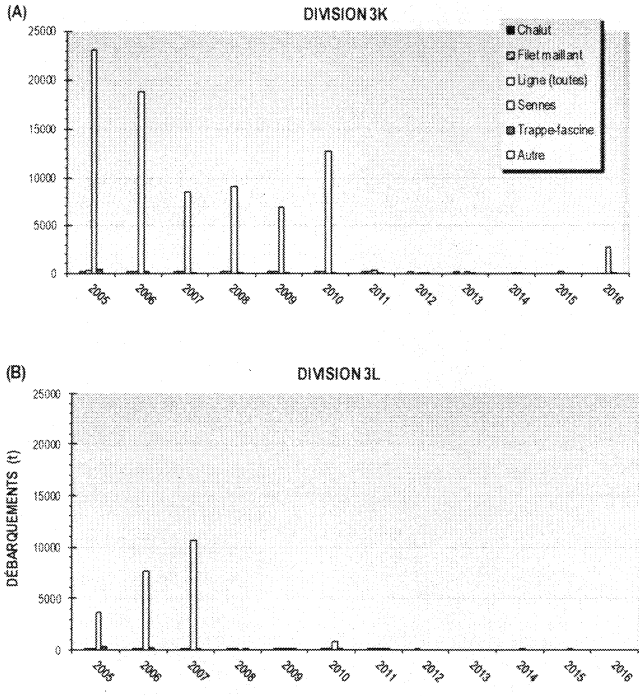
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Fréquences de longueur par engin

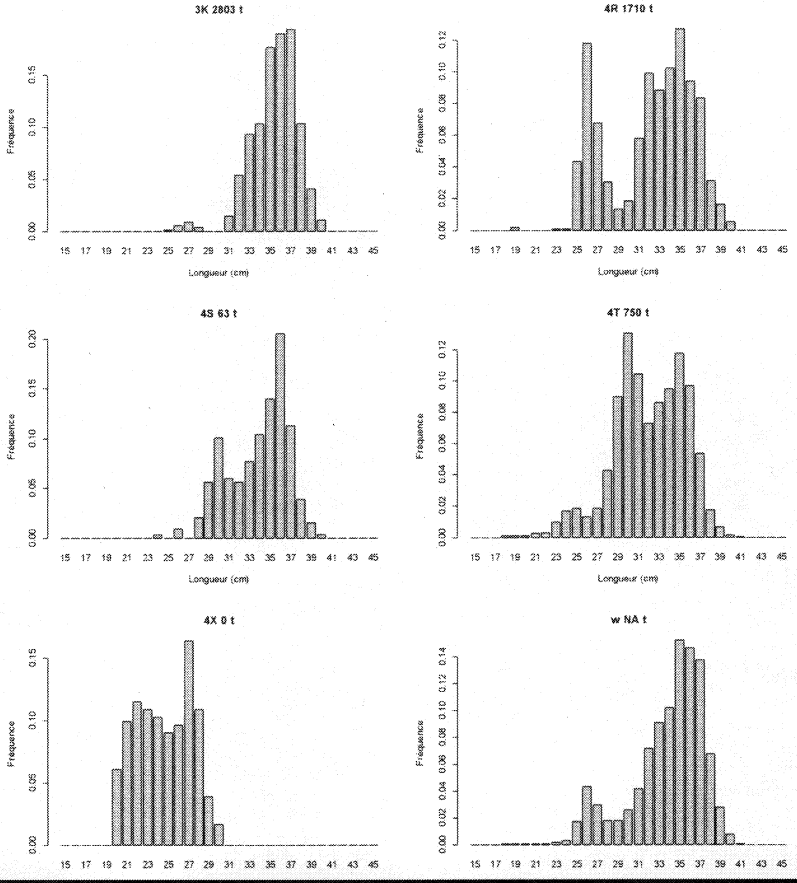


Pêche dans 3KL

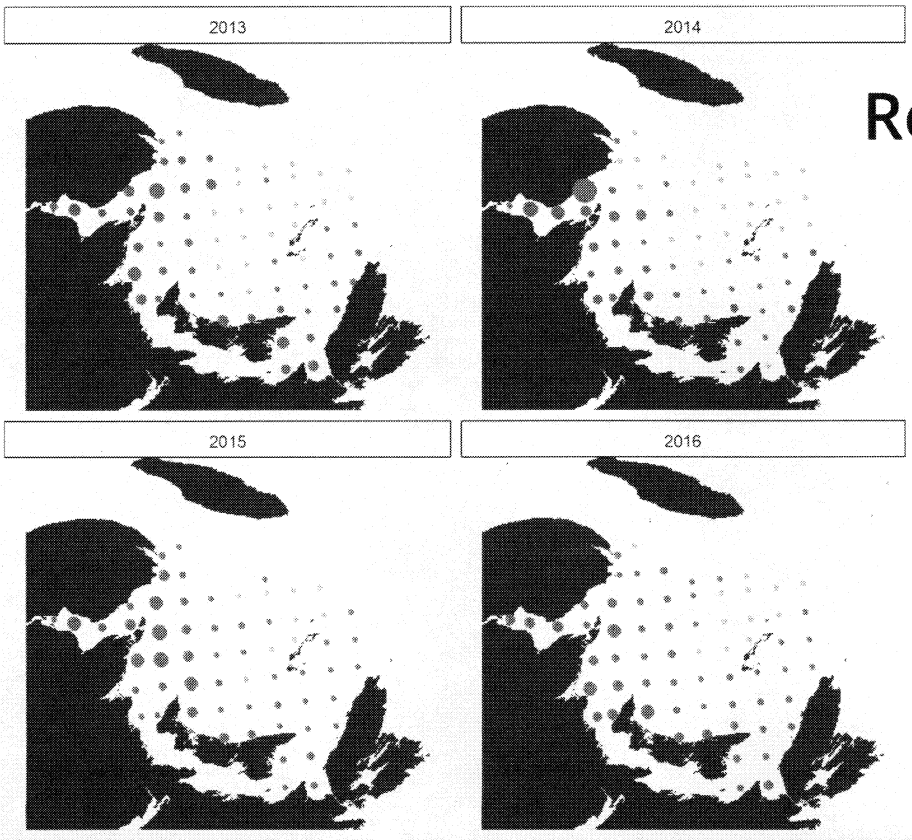


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Fréquences de longueur par division (non-pondérées)



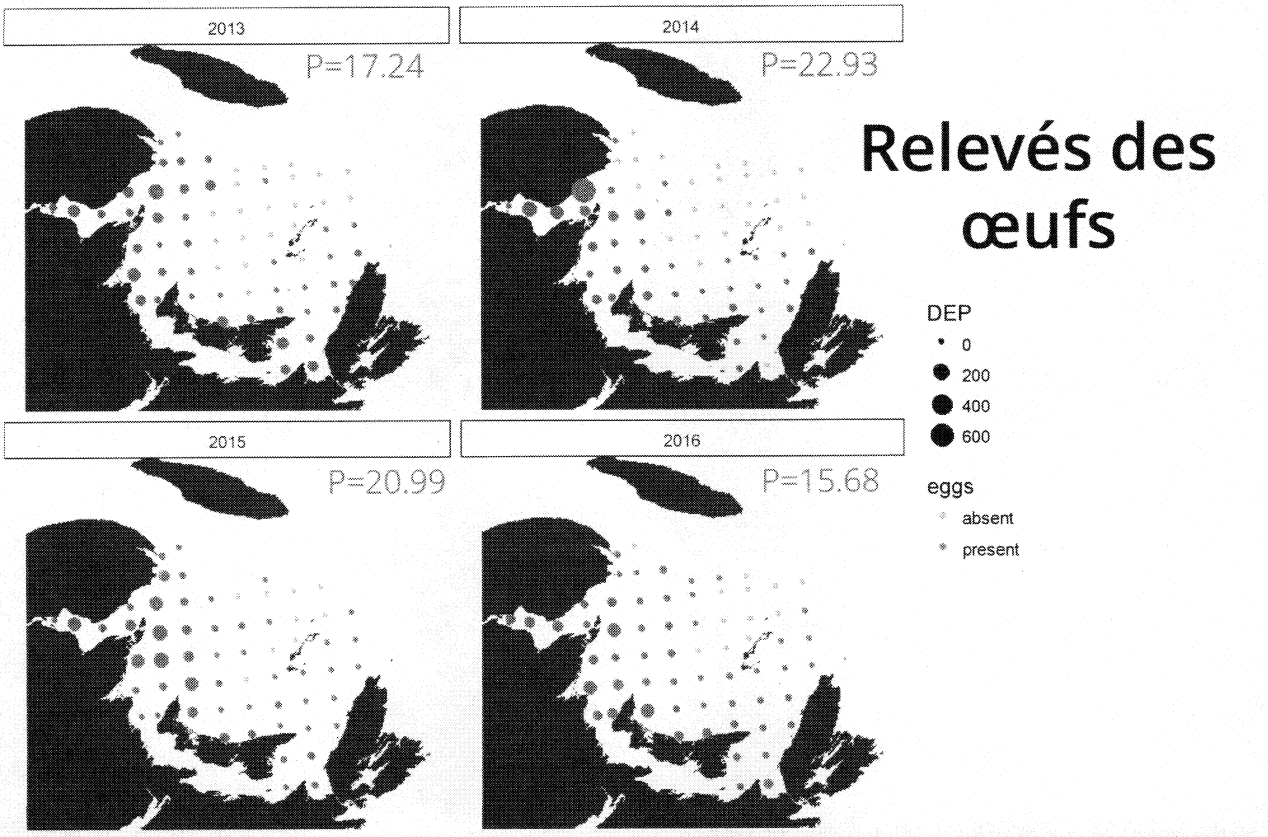
Relevés des œufs



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Calcul de P: Production journalière moyenne

- Densités (n/m2) d'œufs (stades 1 et 5) par station: nombre trié divisé par le volume filtré (m^3) et multiplié par la profondeur échantillonnée (m)
- Conversion en production quotidienne (par station) à partir du temps d'incubation (modèle de Lockwood *et al.* 1977) et des températures moyennes de la couche 0-10 m
- P correspond à la moyenne (stratifiée ou de krigeage) de toutes les stations.



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Calcul de la biomasse reproductrice

Méthode de la Production Totale d'Œufs (MPTO):

$$B = \frac{P \cdot A \cdot W}{S \cdot F \cdot R \cdot 10^6}$$

B = Biomasse reproductrice (t)

P = Production journalière moyenne d'œufs (n/m^2) (moyenne stratifiée)

A = Surface (m^2) de la zone échantillonnée (6,945 x 10^{10} m^2)

W = Poids (g) moyen d'un poisson provenant des échantillons biologiques

S = Proportion d'œufs pondus à la date médiane d'un relevé

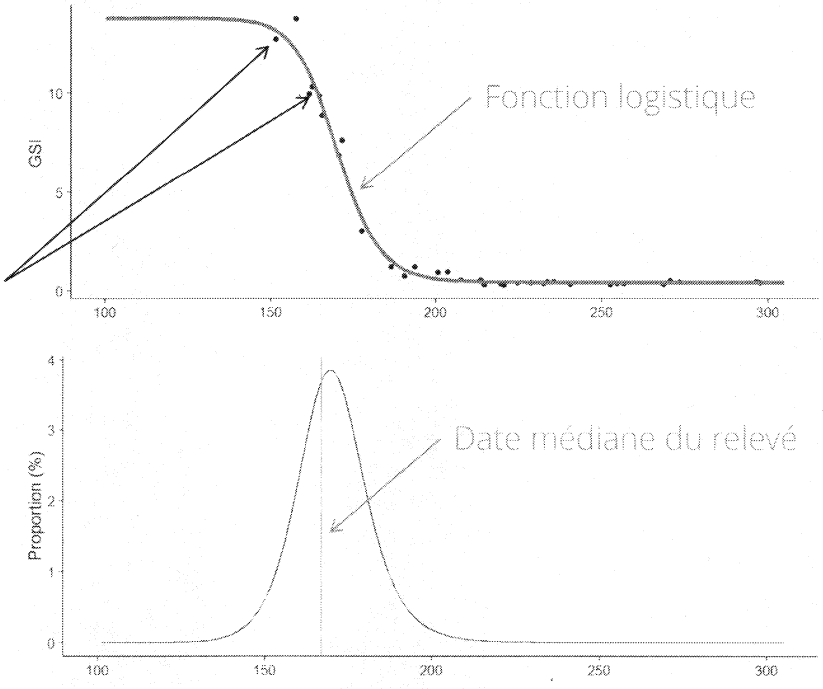
F = Fécondité des femelles (Pelletier 1986)

R = Rapport des sexes (proportion des femelles dans les échantillons)

10^6 = Facteur de conversion de gramme en tonne

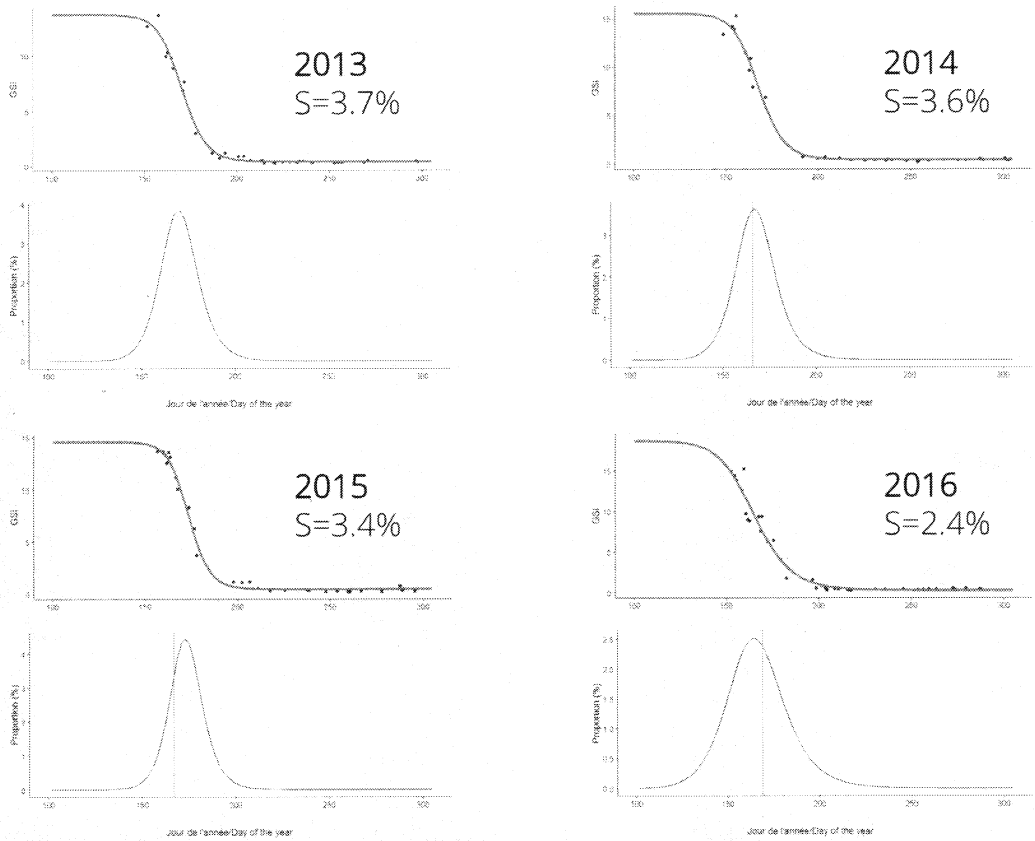
Calcul de S: Proportion d'œufs pondus à la date du relevé

Modélisation des valeurs moyennes journalières de l'indice gonado-somatique



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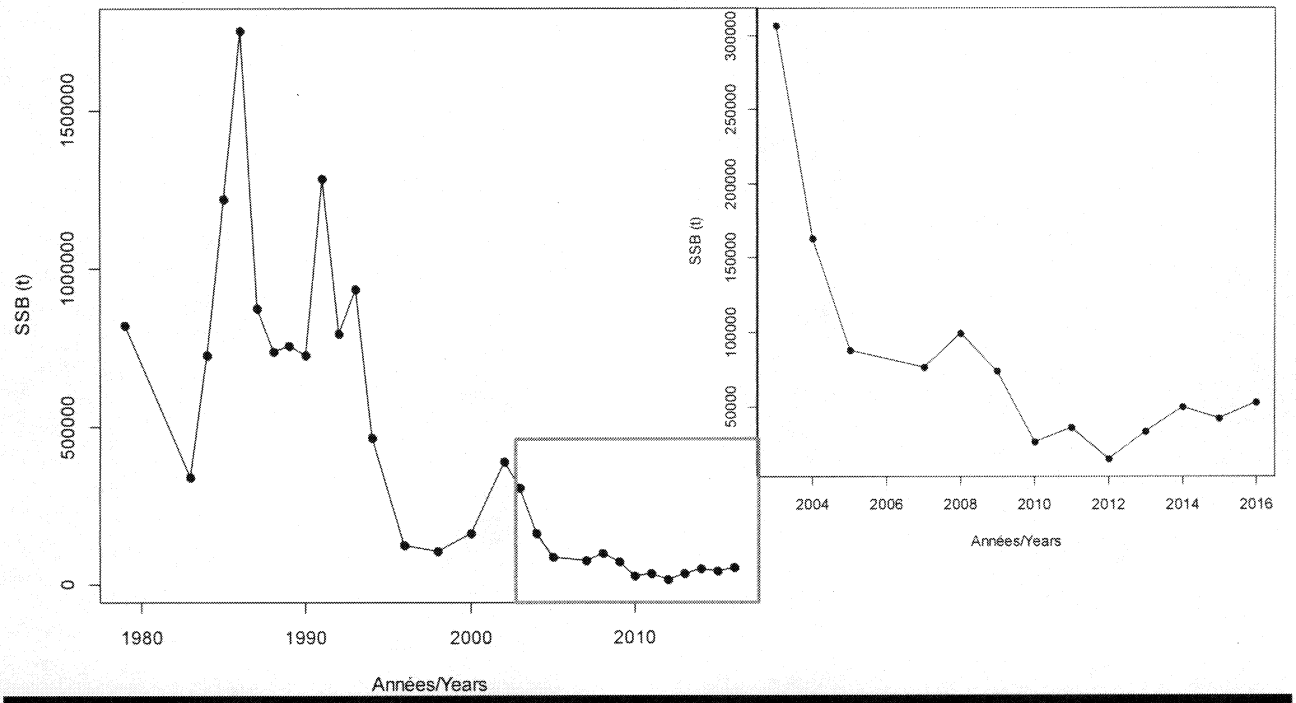
Indice d'abondance (œufs)

Year	P	A	W (g)	S	Fec	R	SSB (t)
2013	17.24	6.94e10	339.1	0.037	641464	0.5126	33 362
2014	22.93	6.94e10	337.1	0.036	577407	0.5170	49 796
2015	20.99	6.94e10	336.5	0.034	667393	0.5237	41 783
2016	15.68	6.94e10	343.8	0.024	575821	0.5212	52 667

000827

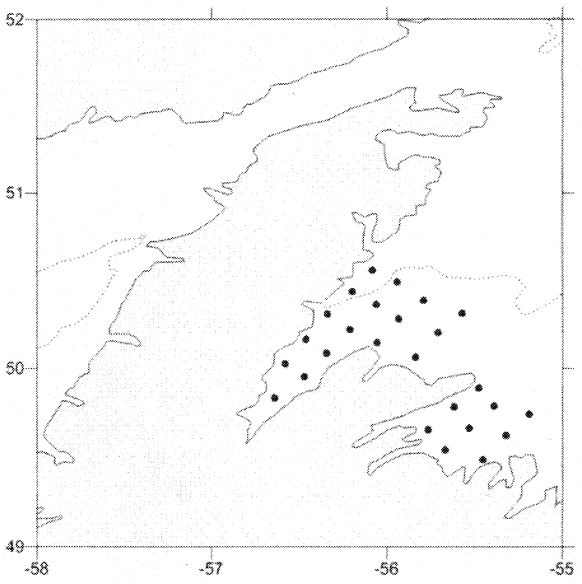
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Indice d'abondance (œufs)



Relevés additionnels

- **Objectif**: étendre les relevés (oeufs et larves) aux baies White et Notre Dame
- **Collaborateurs**: Dr. D. Robert (Memorial University), Dr. M. Castonguay & Dr. P. Pepin (MPO), Dr. E. Carruthers (FFAW)
- **Dates**: Juin-Août 2015 & 2016
- **Resultats**: aucun signe de ponte



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Analyse des prises non-déclarées

Elisabeth Van Beveren, Daniel Duplisea & Martin Castonguay
(Stratégie de Gouvernance Internationale)

2 approches:

- Synthèse des données disponibles (besoins en appât, rapports sur les pêches récréatives)
- Sondage en ligne 2016

Besoins en appât

- Terre-Neuve
  - Maquereaux achetés par un acheteur unique et déclarés
  - MSC: appât utilisé presque exclusivement du calmar

- Québec:
  - 2007-2010: sondage téléphonique aux IdM
    => 54-73% prises non déclarées (appâts+rejets)
  - 2006-2010: rapport MERINOV
    => prises 23% plus élevées (appât crabe)

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Besoins en appât

- Sud du Golfe
  - 1993/2005/2011: sondage auprès des pêcheurs de homard (Michel Comeau)
    - => quantité d'appât annuelle constante
    - >1990: 1800t (5,38t appât/pêcheur *0.11% maquereau frais * ~3000 pêcheurs)
    - <1990: maquereau moins important comme appât
  - MSC: appât crabe : 187,5 t
  - IPÉ:
    - Lavallee et al., 1997: 43% de l'appât pour homard = maquereau
    - Robert MacMillan (resource monitoring program): Les 16 dernières années, hareng et maquereau surtout utilisés comme appâts à homard.

Besoins en appât

- Nouvelle-Ecosse:
  - MSC:
    - Pêche au homard hauturière n'utilise que du hareng
    - Crabe: 2000 t, surtout hareng, maquereau et calmar provenant de la vente internationale
  - Harnish et al. (2002-2004):

    5,216t appât/pêcheur

    (1682 pêcheurs, 75% maquereau)

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Besoins en appât: Thon

- Au moins 5 fois moins élevées que pour le crabe et le homard
- Golfe (données des journaux de bord)

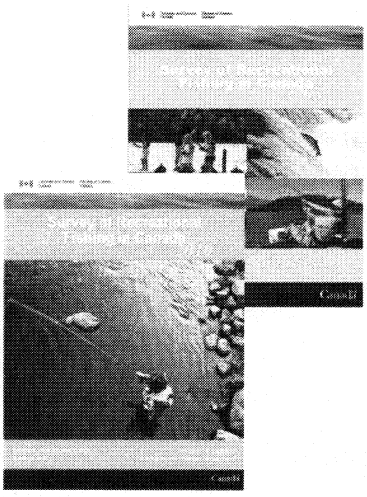
Année	Appât utilisé_Code	Appât utilisé_Description	Montant (lbs) capturé pour appât	Nombre de permis
2013	200	Hareng	12125	280
2013	202	Hareng/Maquereau	1645	41
2013	250	Maquereau	9540	412
2013 Total			**23650**	**764**
2014	200	Hareng	9686	221
2014	202	Hareng/Maquereau	741	32
2014	250	Maquereau	11508	577
2014 Total			**22765**	**856**
2015	200	Hareng	9001	241
2015	202	Hareng/Maquereau	2660	55
2015	250	Maquereau	12068	590
2015 Total			**25323**	**959**

Pêches récréatives

Sondage de la pêche récréative au Canada
Tous les 5 ans (1990-2010), par province

IPE et NE: maquereau = deuxième espèce prises par les pêcheurs au Canada (après la truite) en incluant toutes les espèces d'eau douce. Contrairement aux espèces d'eau douce, les maquereaux sont presque toujours gardés.

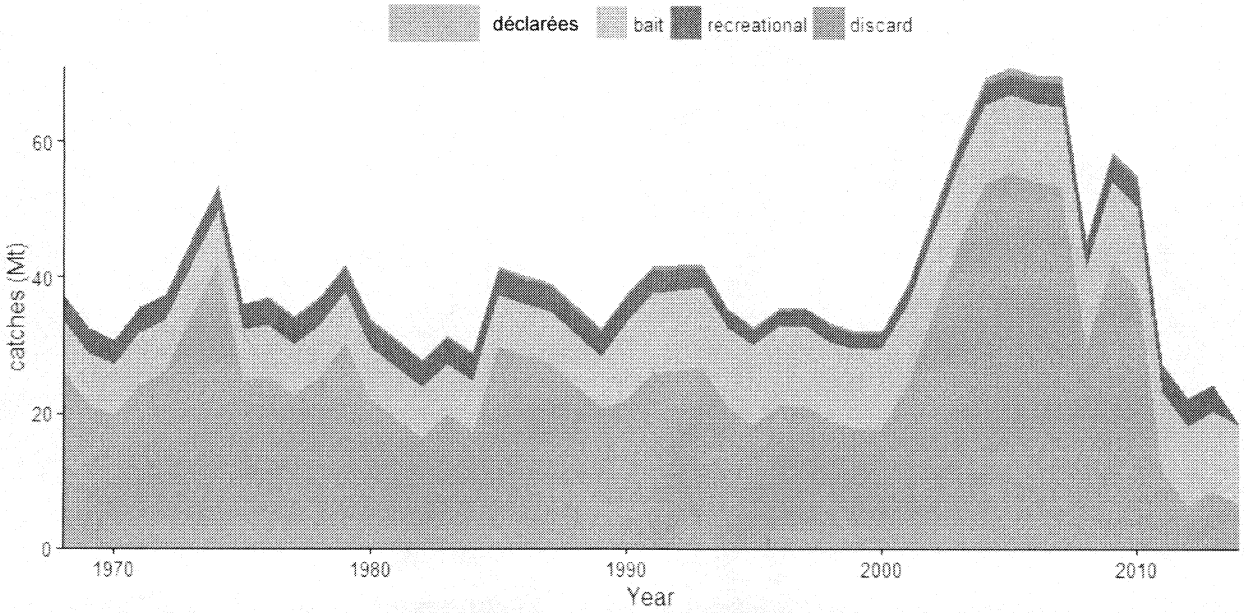
Mais:
- N'inclut pas le Québec
- Seulement les pêcheurs avec licence
- Pas de semi-commercial?



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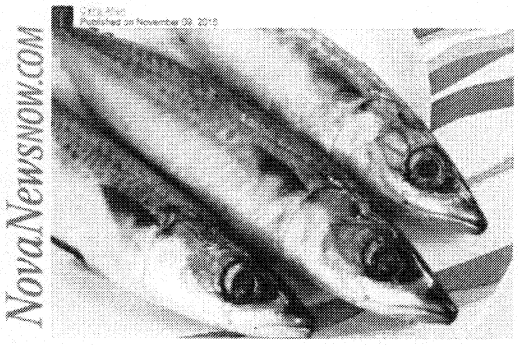
Estimation maximale des prises non-déclarées



Sondage en ligne 2016

- 3453 mails (QC, NB, NE, IPE)
- Trois groupes facebook
- Radio IM
- Forums
- NovaNews

Input sought for mackerel research



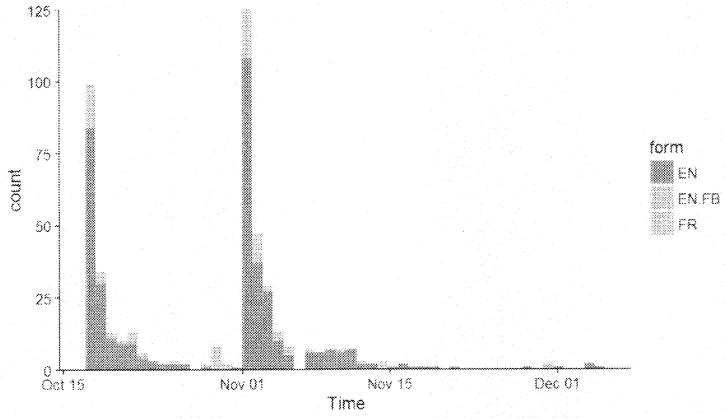
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Répondants

17/10/2016 - 04/12/2016:

476 formulaires avec au moins une réponse (7% FB)

Anglais 89%, Français11%



Représentativité

En comparaison:

1) Nombre de licences 2014 (DFO): 8082

=> 390 réponses viennent de pêcheurs avec licences

→ au moins 5%

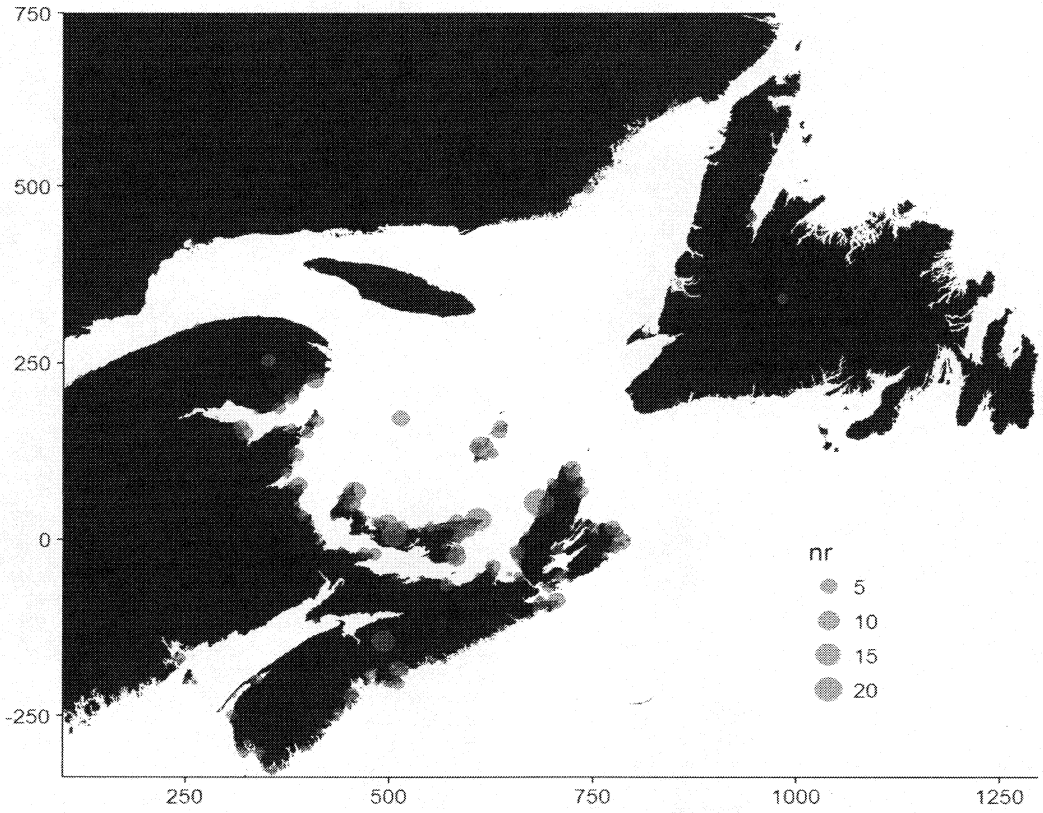
SPECIES	NOVA SCOTIA		NEW BRUNSWICK		P.E.I. GULF	QUEBEC	NEWFOUNDLAND	TOTAL ATLANTIC
	MARITIMES	GULF	MARITIMES	GULF				
MACKEREL	1,909	685	70	1,112	1,269	909	2,266	8,092

2) Prises 2016: ~8000t (TAC)

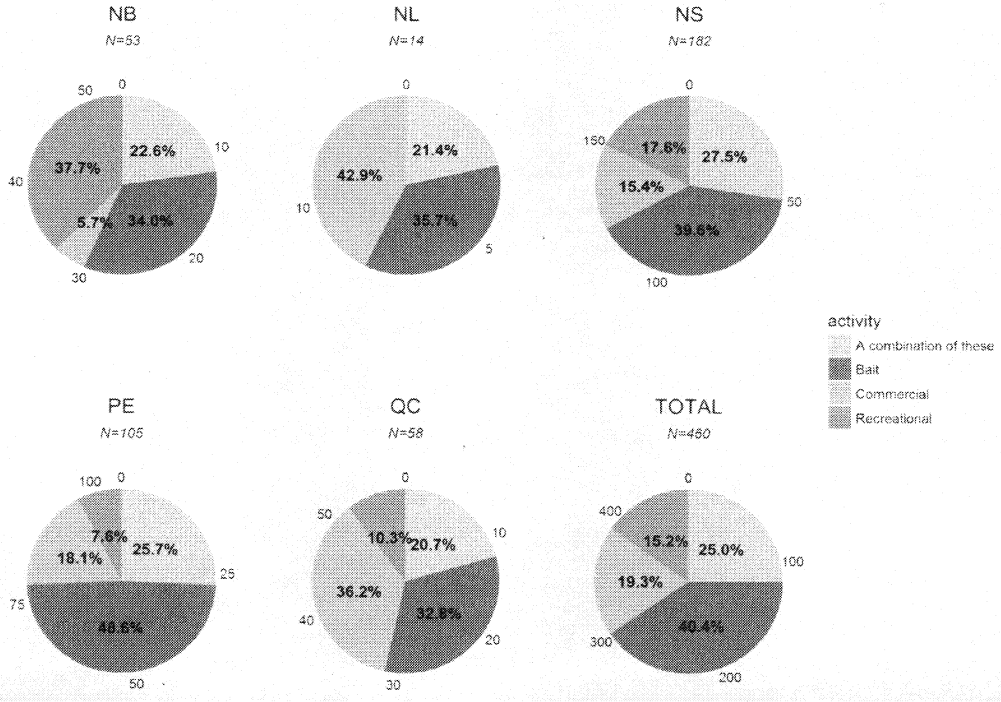
=> prises déclarées par les participants au sondage:1536t = 19%

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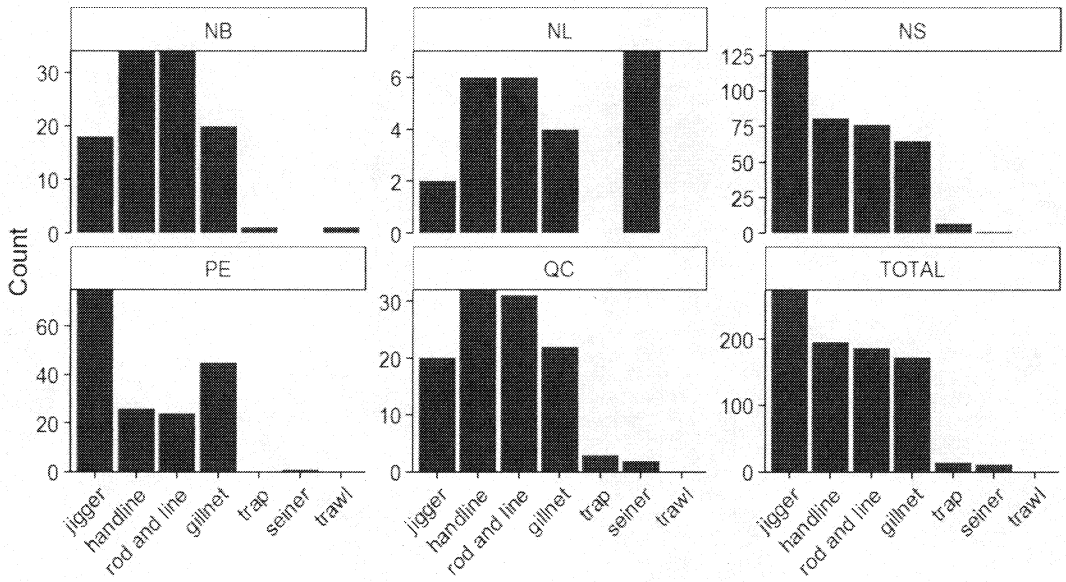


Activité

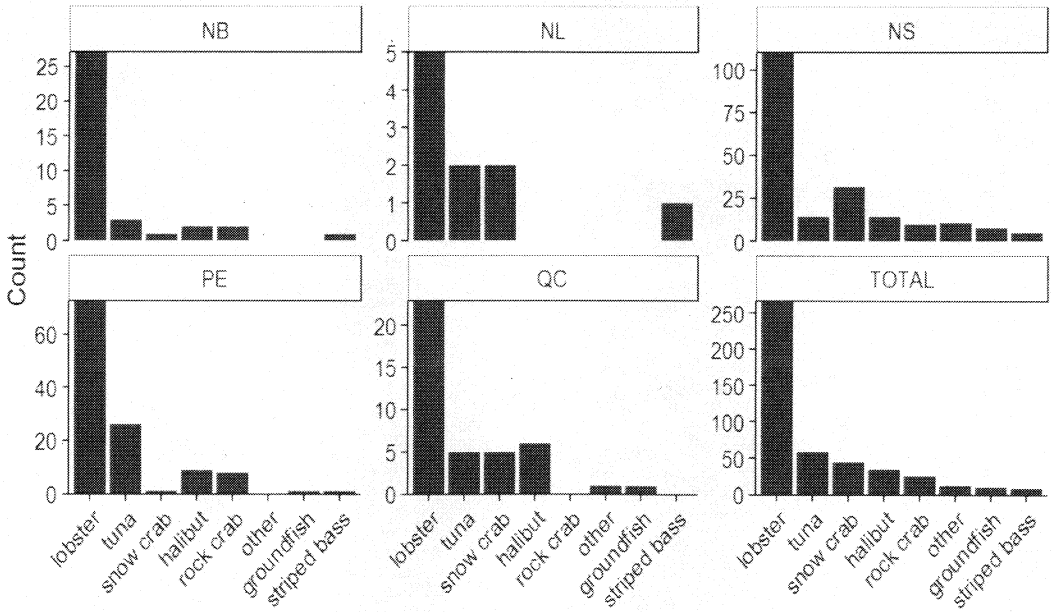


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Type d'engin

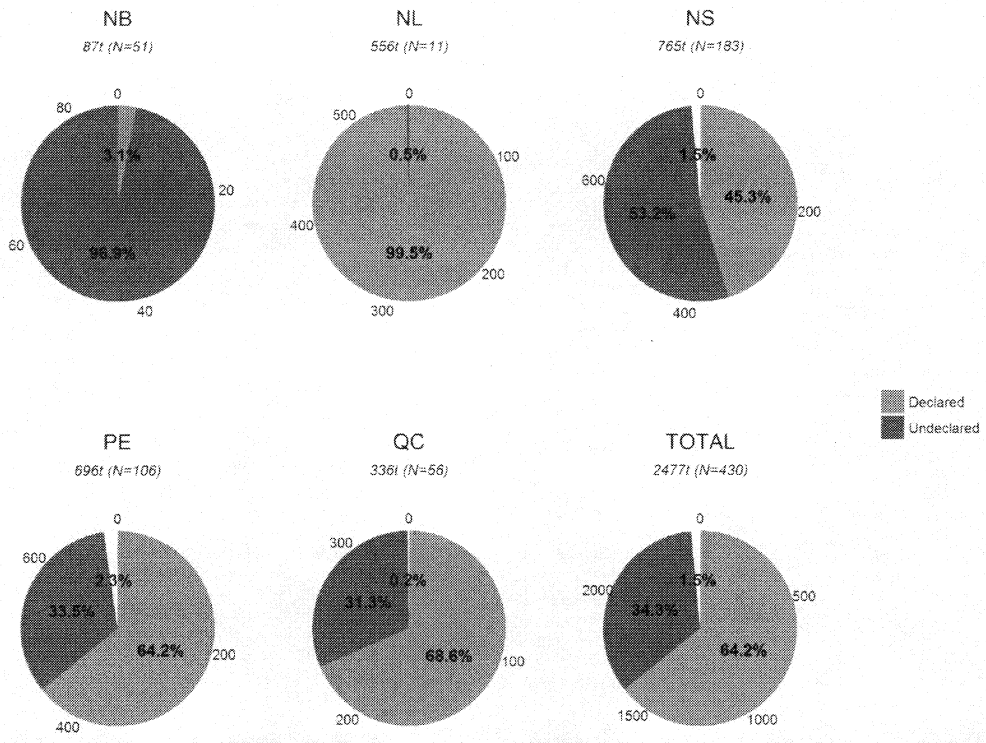


Utilisation de l'appât



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Déclaré vs non-déclaré



Évaluations antérieures

1986 – 2012:

- ASP ne convergent pas (F << M)
- M = 0.3 puis 0.2
- Indices dérivés de la pêche (abandonnés)
- Indice des œufs = absolu

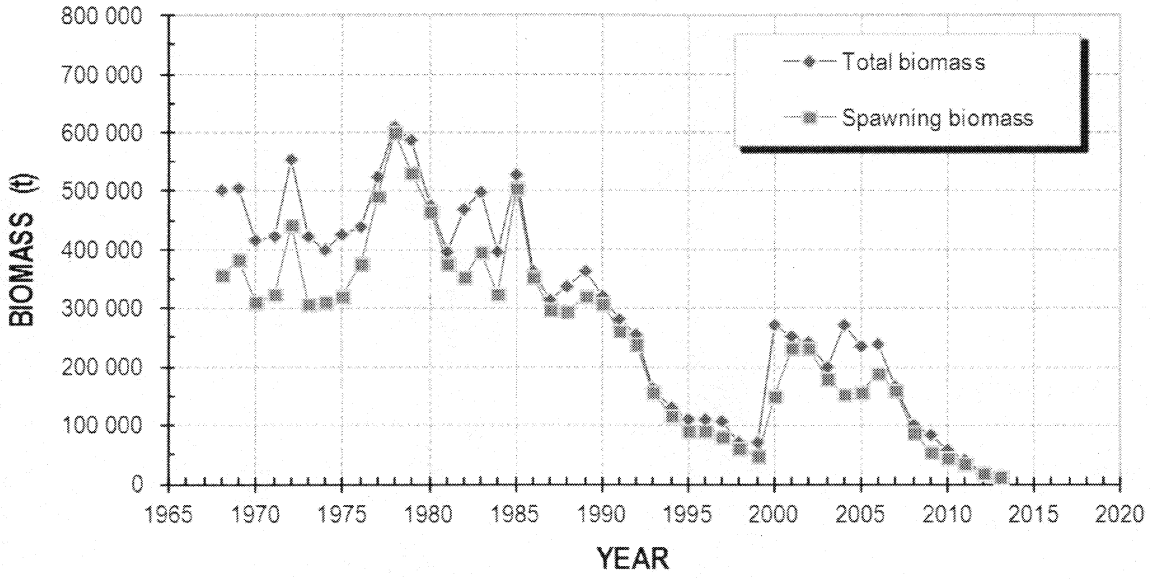
2012 & 2014:

- Integrated catch-at-age
- ajusté à l'indice œufs (>1996)
- M_{2012}=0.2, M_{2014}= Gislason et al. (2010)

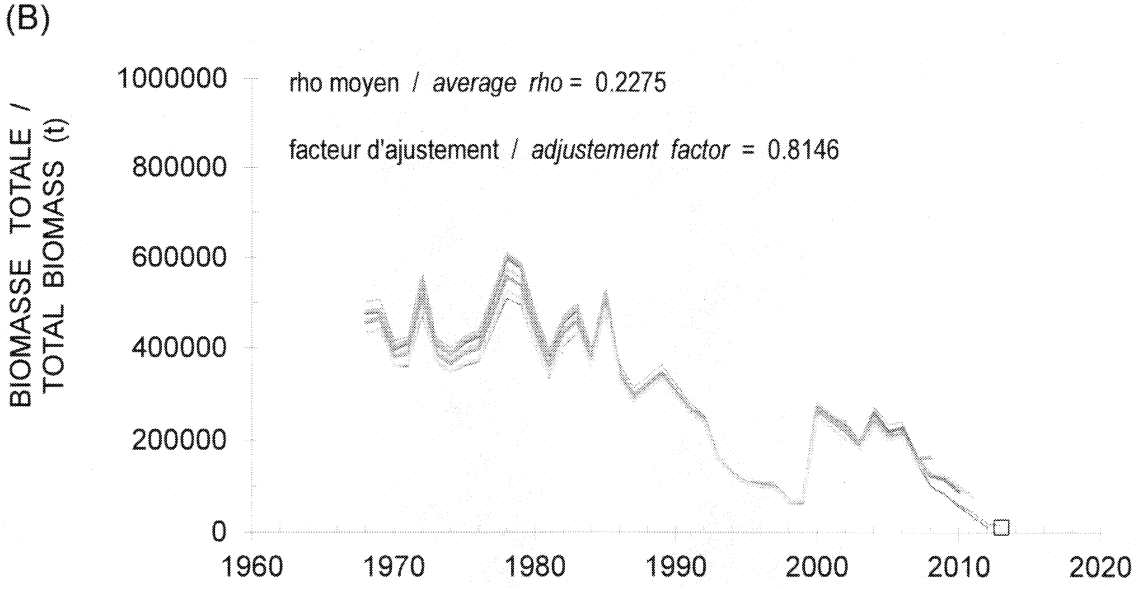
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Évaluation analytique 2014



Patrons rétrospectifs

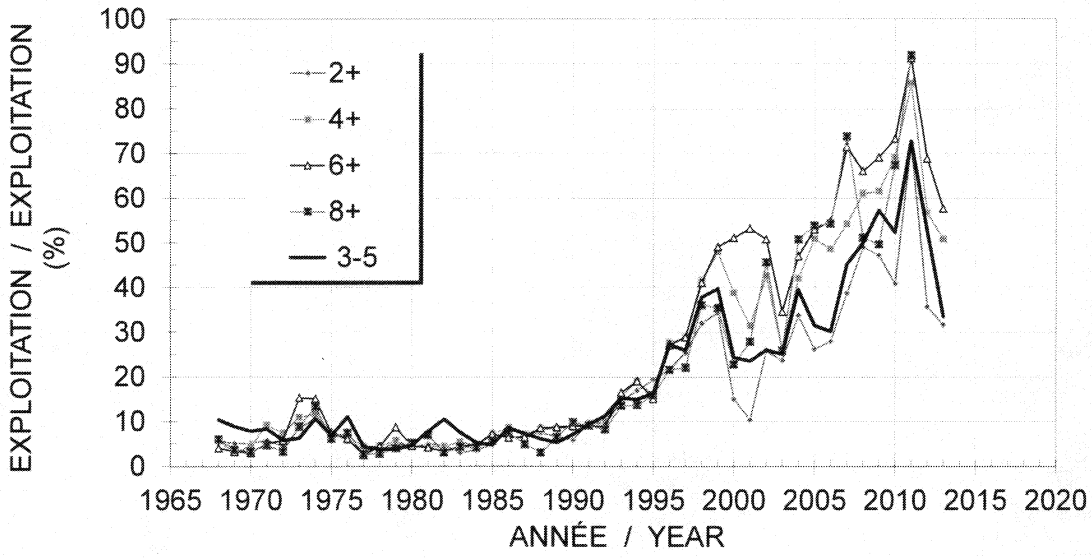


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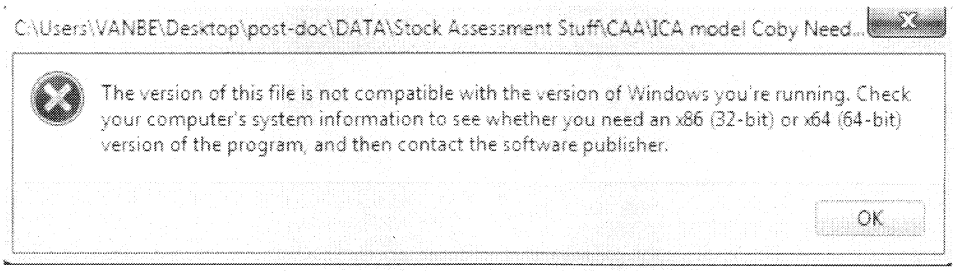
Taux d'exploitation

(C)



Problèmes

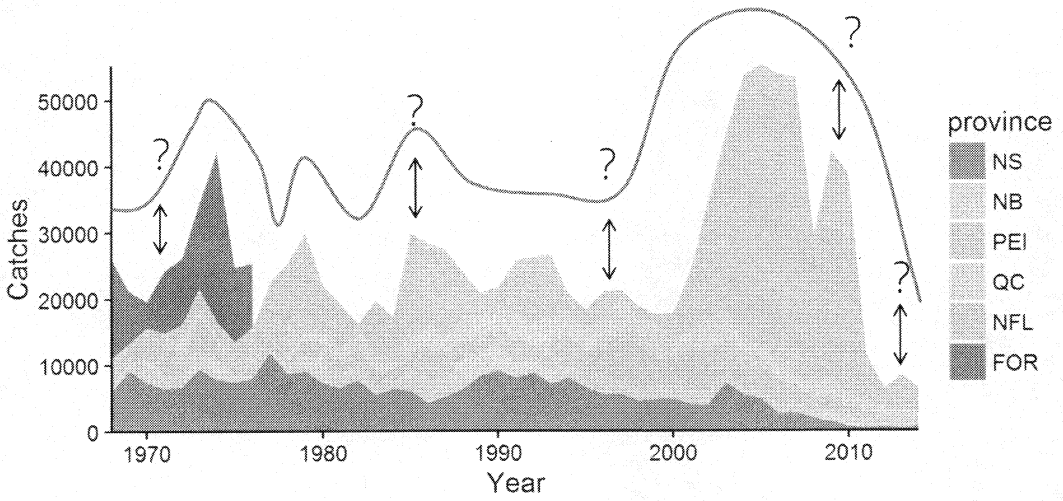
- « ICA » désuet et incompatible
- Ne tient pas compte des prises non-déclarées
- Taux d'exploitation de la SSB peu réaliste



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Approche « Censurée »



Approche « Censurée »

2005 **Censored catch data in fisheries stock assessment**

T. R. Hammond and V. M. Trenkel

2010 **Detecting and correcting underreported catches in fish stock assessment: trial of a new method**

Nicolas Bousquet, Noel Cadigan, Thierry Duchesne, and Louis-Paul Rivest

2016 A state-space stock assessment model for northern cod, including under-reported catches and variable natural mortality rates[1]

Noel G. Cadigan

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Structure générale

$$N_{a,y} = \begin{cases} f\left(SSB_{y-1}, E_{y-1}\right), & a = 1 \\ N_{a-1,y-1}\exp\left(-Z_{a-1,y-1} + \delta_{a,y}\right), & a = 2, \ldots, A\text{-}1 \\ N_{a-1,y-1}\exp\left(-Z_{a-1,y-1} + \delta_{a,y}\right) + N_{a,y-1}\exp\left(-Z_{a,y-1} + \delta_{a,y}\right), & a = A \end{cases}$$

Mortalité totale (Z) =Naturelle (M) + Pêche (F)

↓ Fixe ↓ Estimée

Gislason F=Fy*Fa

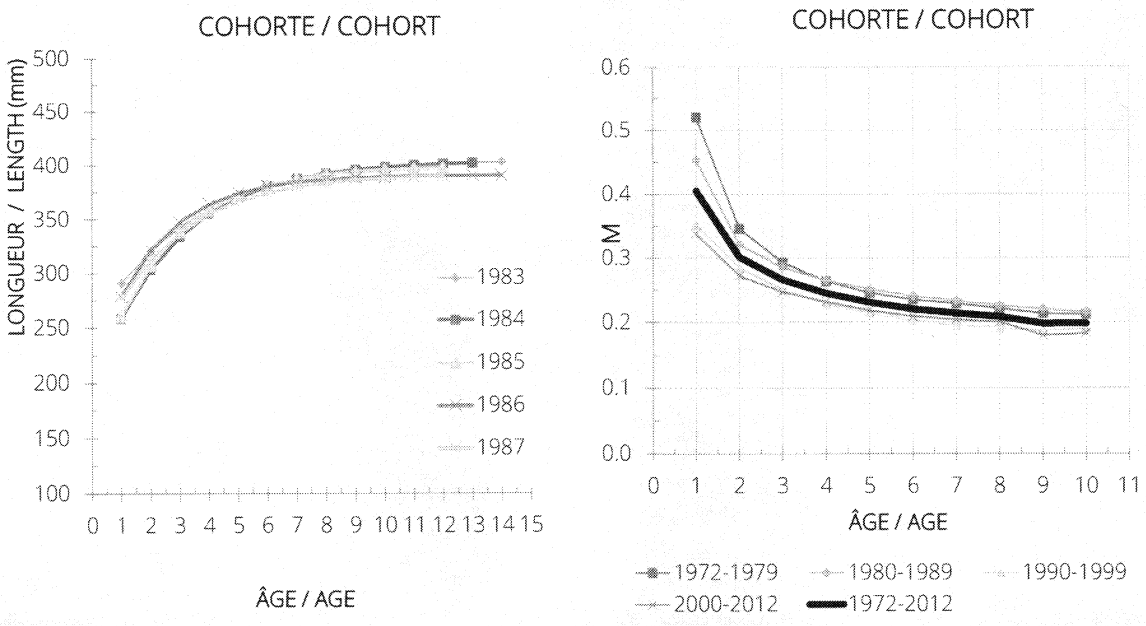
↙ ↘

Random walk Identique pour âges 4-10

Recrutement = Beverton-Holt + effet environnemental
Erreur de processus (autorégressive sur les années et les âges)

Mortalité naturelle (2014)

Calcul de M / *M Calculation*
Modèle de Gislason *et al.* 2010



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Structure générale

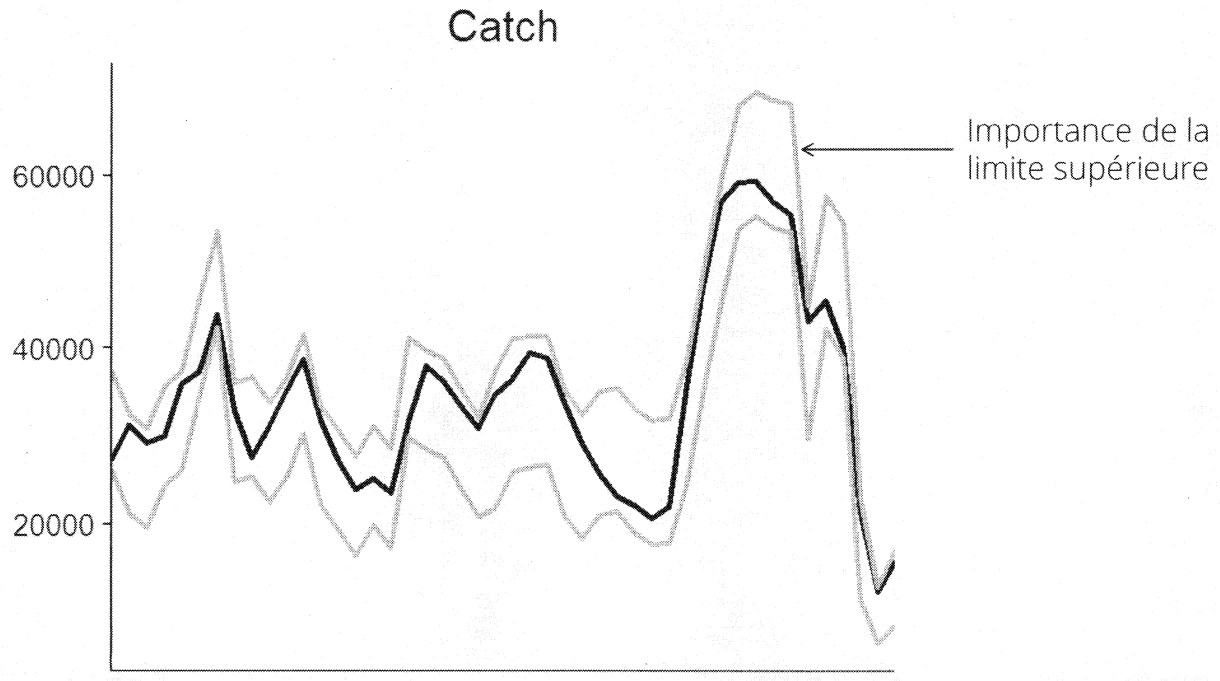
- Prises à l'âge/année (Baranov):

$$C_{a,y}=N_{a,y}\frac{F_{a,y}}{Z_{a,y}}\left[1-\exp\left(-Z_{a,y}\right)\right]$$

- Indice du relevé des œufs:

$$I_y=\sum_{y=1}^{Y} qN_{a,y}exp\left(-Z_{a,y}t_s\right)Weight_{a,y}PropMature_{a,y}$$

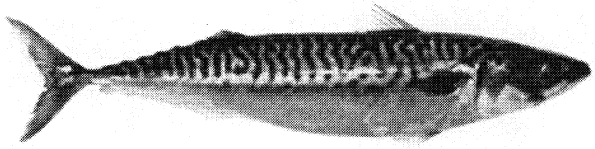
Version censurée



000841

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Assessment of Atlantic mackerel in subareas 3-4



Thomas Doniol-Valcroze, Benoît Légaré,
Linda Girard, Mélanie Boudreau,
Elisabeth Van Beveren & Martin Castonguay

Acknowledgments:

- Sylvain Hurtubise: Données de la pêche et de l'échantillonnage commercial
- Échantillonneur(e)s des régions du Québec, du Golfe, des Maritimes et de Terre-Neuve
- Équipage du Téléost et du Coriolis II
- Stéphane Plourde et Caroline Lehoux: Considérations écosystémiques
- Claude Brassard et Denis Bernier: soutien logiciel de captures à l'âge
- Noël Cadigan et William Aeberhard: soutien développement modèle

Assessment schedule

- Last assessment: 2014
- 2016 assessment delayed until à 2017
- December 2016: data review (eggs)
- January 2017: framework assessment (model)
- March 2017: stock assessment
  - Use of new model
  - Data update 2013, 2014, 2015, 2016
    - Landings
    - Biological data
    - Egg surveys

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Summary of 2014 assessment

- Reported commercial landings in NAFO subareas 3 and 4 have decreased significantly in recent years.
- US landings (commercial and recreational) in NAFO subareas 5 and 6 also decreased significantly in recent years..
- Length at 50% maturity is greater than the minimum authorized length of catch of 250 mm. The fact that catches may target immature fish represents an additional pressure for the stock.
- Mackerel condition in June is related to the temperature of the cold intermediate layer (CIL) and to the abundance and phenology of key copepod species, and decreased since 2003. Mackerel recruitment success appears to be favoured by high abundance and an early development of the copepod *Calanus finmarchicus*.
- The abundance index from the egg survey dropped significantly between 1993 and 1998. Following an increase caused by the arrival of the strong 1999 year-class, the index dropped again from 2002, which reflects the collapse of the stock.
- A SPA calibrated with the abundance index from the egg survey indicates that the mackerel spawning biomass has been declining since the mid-2000s to reach its minimum in 2013.
- According to the SPA, this decline in biomass was caused by fishing mortality levels several times higher than the historic sustainable levels. It is likely that the stock is currently in a situation of recruitment overfishing.
- Given the critical situation of the stock, the priority is for its reconstruction: (1) According to the projections based on the average sustainable fishing mortality from the analytical assessment, annual catches in 2014 and 2015 should not exceed 800 t; (2) In the current situation of the stock, it is even more important to know and control the bait and recreational fisheries.

Terms of reference 2017

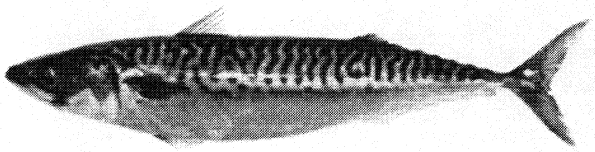
Provide a scientific advice on the management of the Atlantic mackerel in NAFO Subareas 3 and 4 (Canada's east coast) for the 2017 and 2018 fishing seasons. This advice will include:

- a review of the population structure of Atlantic mackerel in the North Atlantic;
- an analysis of the commercial fishery statistics following the 2014, 2015 and 2016 seasons (overall distribution of landings, breakdown by province, NAFO Division, fishing gear, etc...);
- an analysis of the biological data collected in the main port of landings by port samplers or at sea by observers (size structure and calculation of biological indicators);
- an analysis of the egg survey index for 2014, 2015 and 2016;
- a review of the main sources of uncertainty;
- ecosystem and environmental considerations;
- A presentation of the new mackerel abundance index developed from egg data in US waters;
- A presentation of the results of a statistical catch-at-age model that includes missing catch estimates (following a framework review in January 2017) based on the Canadian catch at the age and the egg survey index. These results will include fishing mortality, abundance and spawning biomass, updating reference points, stock trajectory and predictions of the 2017 and 2018 catches under different fishing mortality scenarios;
- the process to provide advice during the interim years, including a description of conditions that may warrant a full stock assessment earlier than originally planned;
- Identification and prioritization of research projects to be considered for the future;
- Perspectives and/or recommendations for 2017 and 2018 based on available data;
- [redacted]

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Bref survol de la structure des populations de maquereau / *Brief overview of mackerel population structure*

Martin Castonguay
IML



Background

- Les stocks de maquereau en Europe sont très abondants. Le CIEM a recommandé un TAC de 773 842 t pour 2016. / *Mackerel stocks in Europe at very high levels. ICES advised that TAC should not be higher than* ***773,842 t*** *in 2016.*
- Les stocks de maquereau au Canada sont au plus faible niveau jamais mesuré, déterminé en 2014 sous le PRL. Les TAC récents au Canada à **8000 t**. / *Mackerel stocks in Canada at the lowest level ever recorded, assessed in 2014 to be below Blim. Recent TACs in Canada at 8000 t.*
- Le maquereau maintenant abondant dans le centre de l'Atlantique (Islande et Groenland): TAC **85 000 t** au Groenland en 2015 / *Mackerel now abundant in the Central Atlantic (Iceland & Greenland) : TAC 85,000 t in Greenland in 2015*
- D'où provient ce maquereau du centre de l'Atlantique? / *Where does this Central Atlantic mackerel come from?*

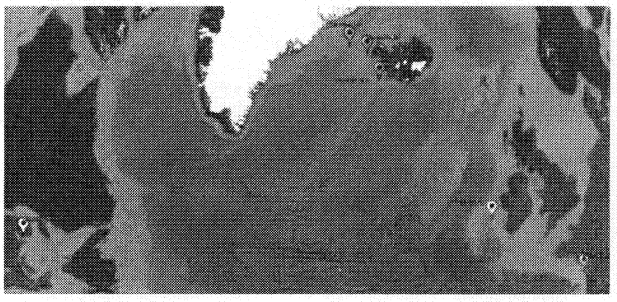
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Background

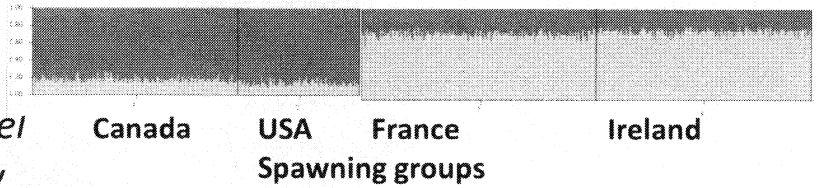
Deux études génétiques-génomiques récentes basées sur l'ADN-mt et les SNP / Two recent studies based on mt-DNA and SNPs:

- Rodriguez-Ezpelata et al. (2016)
- Helyar et al. (2013; in prep)



Europe vs Amérique du Nord

- La population de maquereau de l'Amérique du Nord est génétiquement distincte de celle de l'Europe (ADN-mt)/ *The North American mackerel population is genetically distinct from the European one (mt-DNA)*



000845

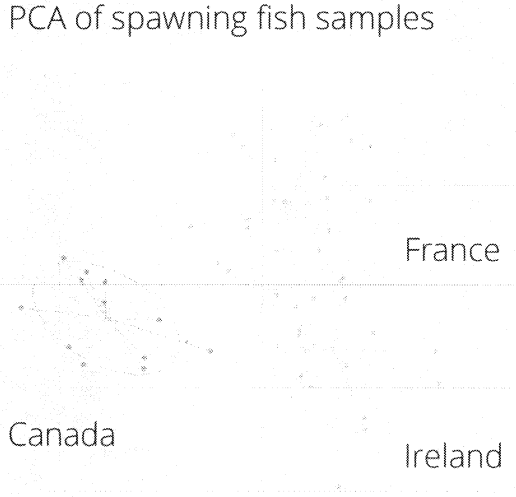
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Amérique du Nord

- Les stocks canadiens et américains ne semblent pas distincts génétiquement bien que les études en question incluent peu d'échantillons de l'Amérique du Nord / *Canadian and American stocks do not seem genetically distinct although the studies in question include few samples from North America*

Europe

- Il semble y avoir une structure de stock subtile au sein de la population européenne / There seems to be a weak stock structure within the European population



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Centre de l'Atlantique

- Le maquereau de l'Islande et du Groenland provient exclusivement de l'Europe / *Mackerel from Iceland and Greenland originate exclusively from Europe*

	Canada	Europe	Iceland
Canada	-	0.000000	0.000000
Europe		-	0.075595
Iceland			-

Recherche à venir / Upcoming research

- Collaboration pour améliorer les études génétiques/génomiques / *Collaboration to improve genetic/genomic studies*
- Augmenter le nombre d'échantillons de l'Amérique du Nord / *Increase number of samples from North America*

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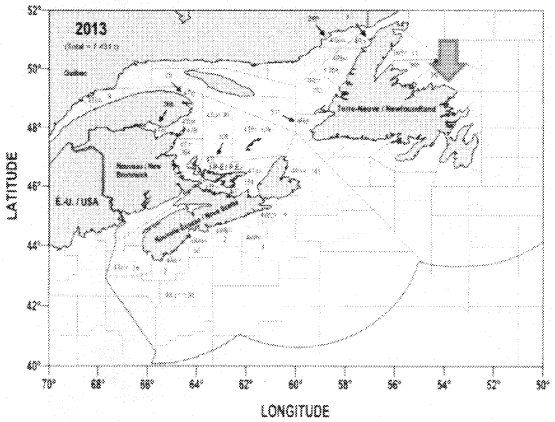
Questions de recherche / Research questions

- Réexaminer avec des outils moléculaires modernes les différences génétiques/génomiques entre les groupes reproducteurs canadiens et américains / Reexamine with modern molecular tools genetic differences between Canadian and US spawning groups

- Déterminer si la population abondante de l'Europe s'est dispersée en Amérique du Nord / *Determine if the abundant European population has dispersed to North America*

Questions de recherche / Research questions

D'où proviennent les jeunes de l'année capturés au nord de Terre-Neuve (3K) ? / Where do young-of-the-year captured north of Newfoundland (3K) come from?



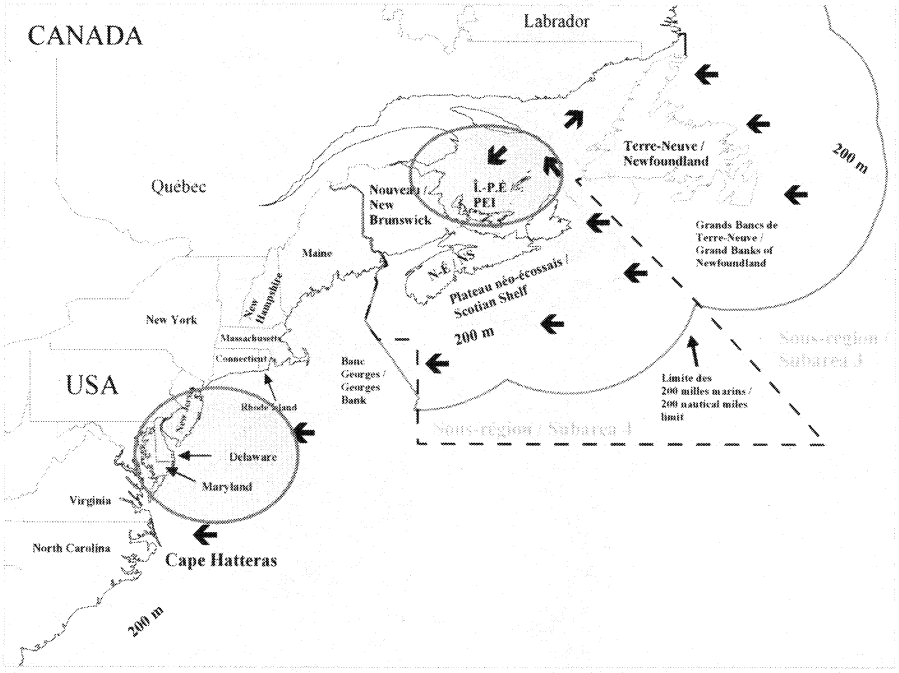
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Biology

- Pelagic
- Migratory
- 26 cm after 2 years = maturity
- Full recruitment ~3 years
- « batch spawners » (june)
- 2 spawning components
- 1 transboundary stock

Distribution and migration



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Issues

Undeclared catches

- Mackerel used as bait for crab and lobster fisheries
- Large proportion of undeclared catches: bait for personnal use, fisher-to-fisher sales, recreational fishing, unfilled logbooks
- Differences between management regions
- **This creates a major problem affecting the quality of the assessment**

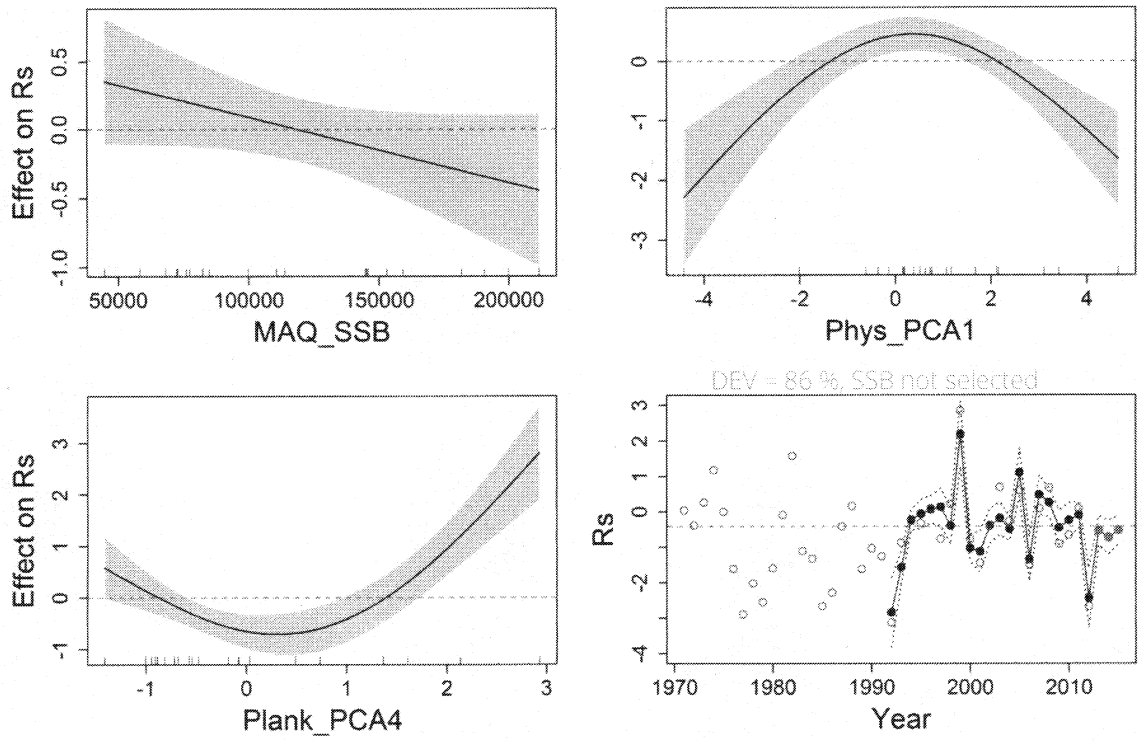
Environmental considerations : 2013

- A common trend was detected in the time series abundance of larvae collected in the southern Gulf of St. Lawrence between 1983 and 2012.
- This trend is characterized by a significant decrease between 1983 and 1995 followed by a stable period until 2004. A decrease of the trend is again observed until 2010 followed by a slight increase until 2012.
- The species strongly related to this trend are cod, capelin, yellowtail flounder, mackerel, and redfish (all commercial species...).
- Two explicative variables were identified: (1) temperature of the CIL, and (2) abundance index of plankton.

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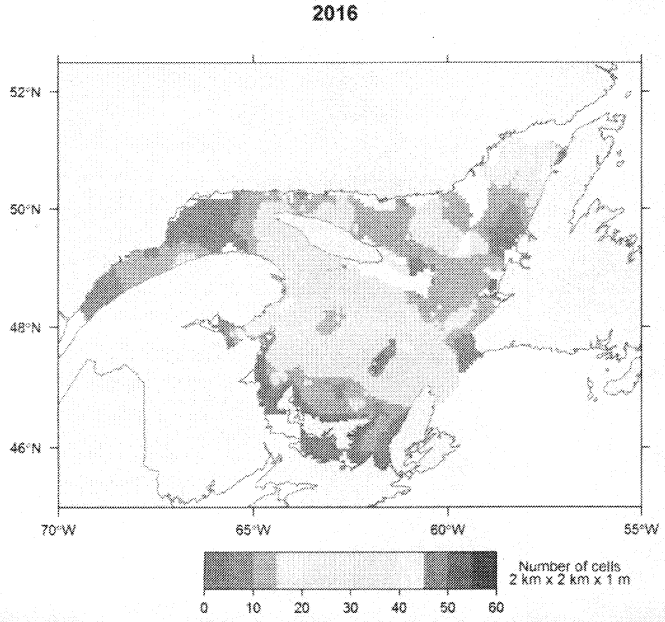
Mackerel recruitment rate



Plourde et al. 2015

Environmental considérations

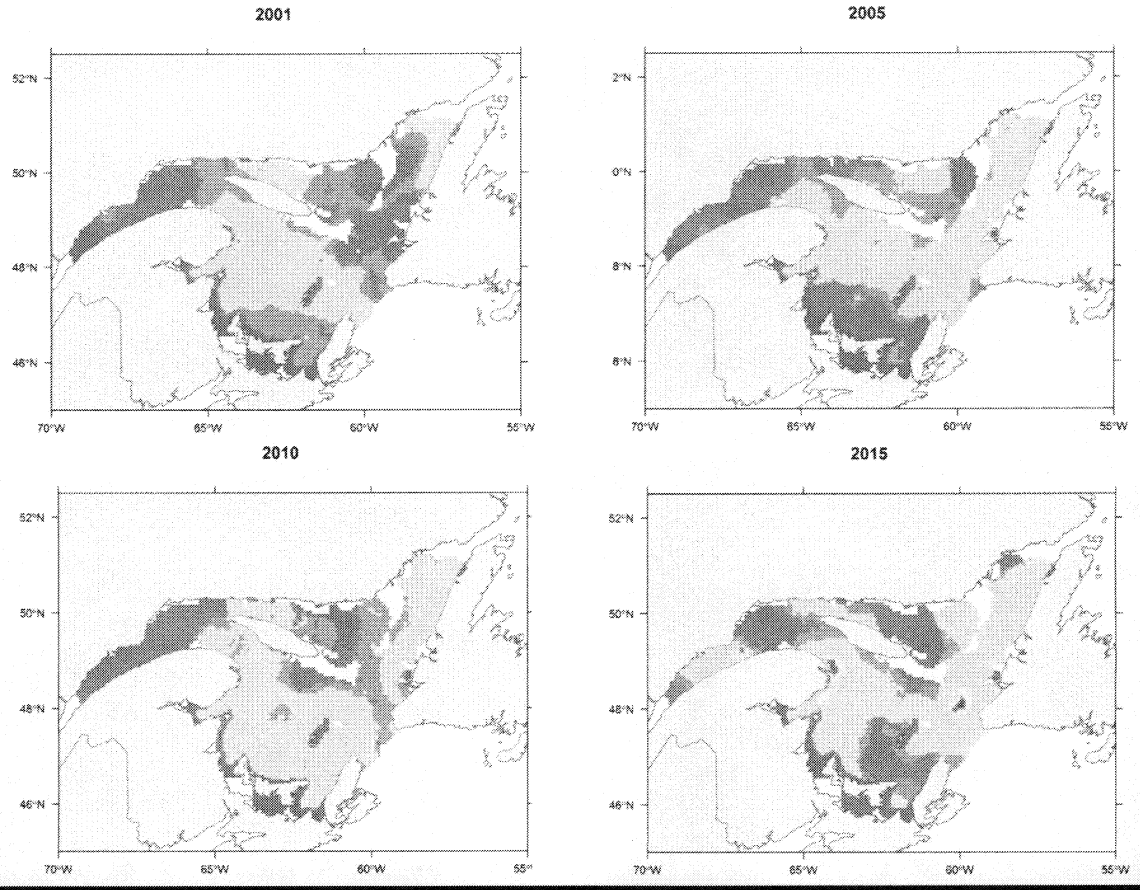
- Link between temperature and spatial distribution, migration timing and spawning timing
- Importance of volume of water between 6 and 16°C (0-100m)

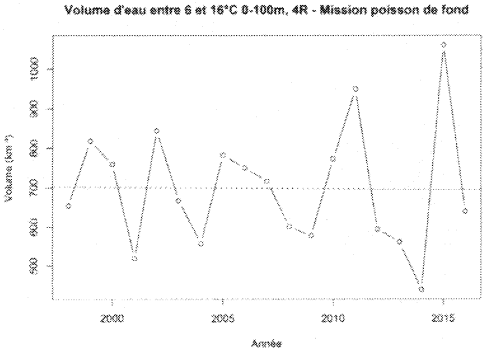


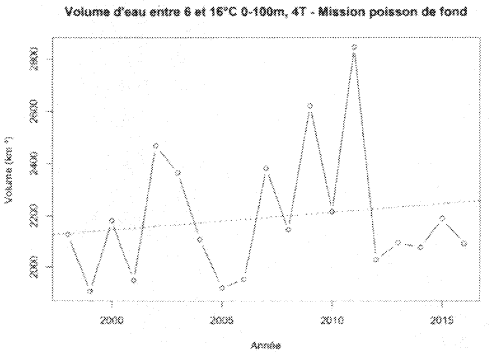
Preliminary work by
S. Plourde et C. Lehoux

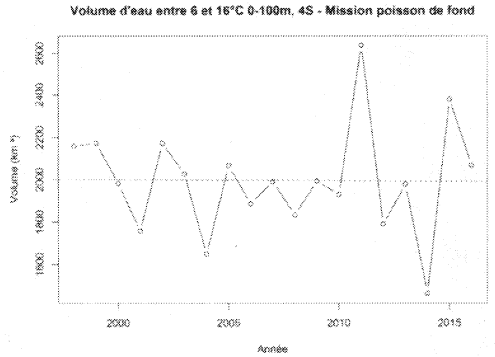
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→ Strong spatial and interannual variability

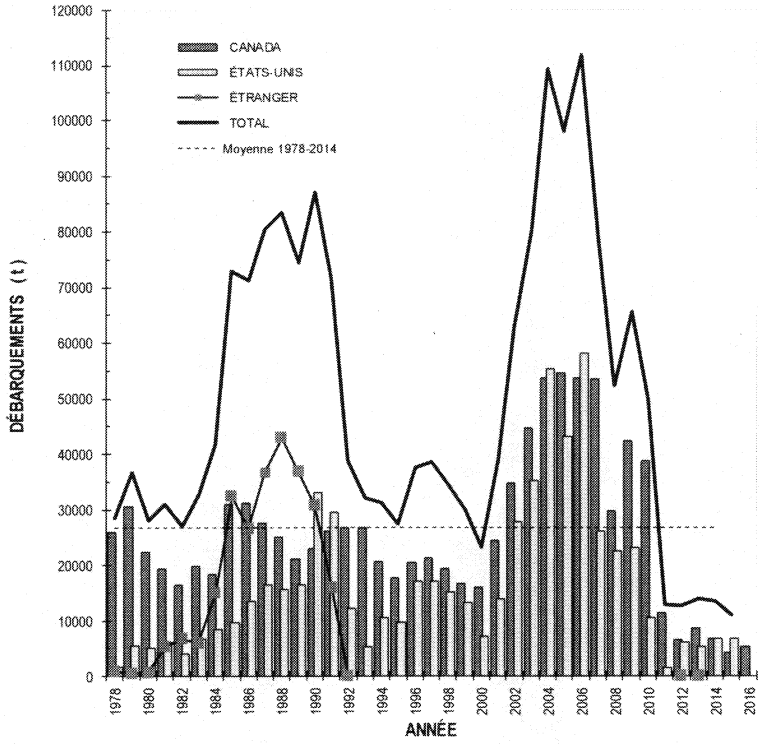
→ No clear trend among regions

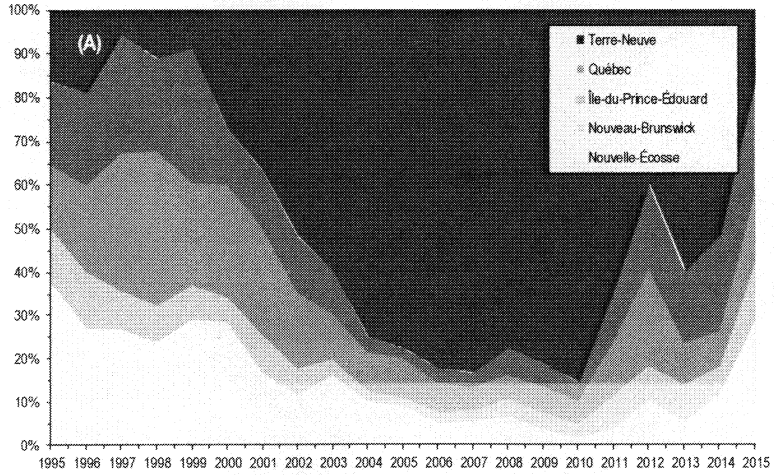
→ Future work on habitat quality for eggs and larvae (temperature, availability of planktonic prey)

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Commercial catches 2013-2016

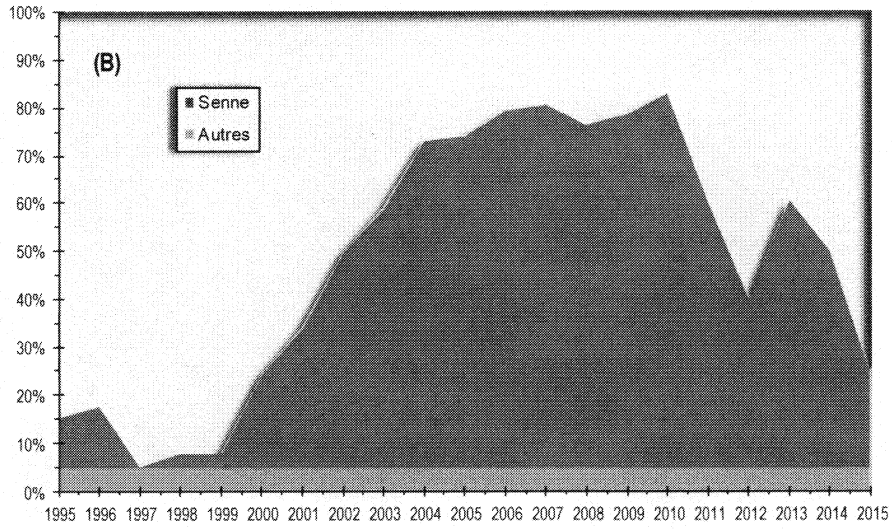


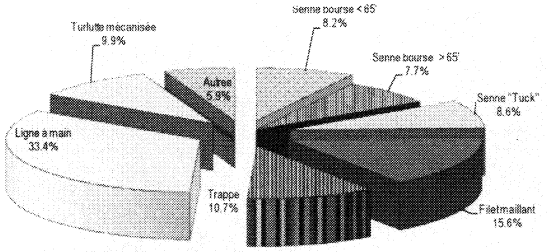


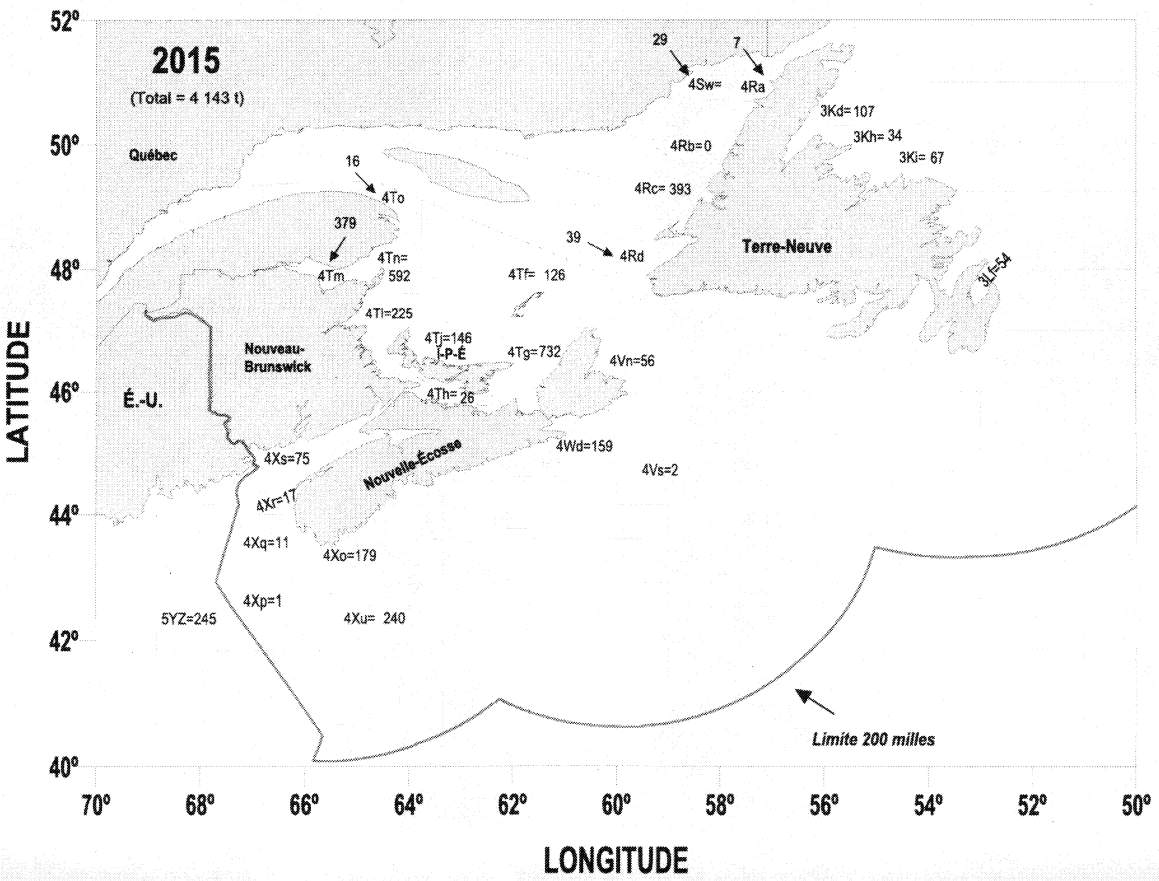
Province	YEAR								MEAN
	2009	2010	2011	2012	2013	2014	2015 [1]	2016 [1]	(1995-2014)
Nova Scotia	1 454	666	416	683	450	770	1183		3 455
New Brunswick	1 762	1 260	903	524	766	449	571		1 464
Prince Edward Island	2 463	1 959	1 400	1 478	825	527	643		3 541
Quebec	2 316	1 709	1 345	1 278	1 453	1502	1045	844	2 756
Newfoundland	34 237	33 159	7 337	2 619	5 169	3432	701	4513	17 516
Other Provinces	0.2	0.2	0	0	0	0	0		5
TOTAL	42 231	38 753	11 400	6 582	8 663	6680	4143	5357	

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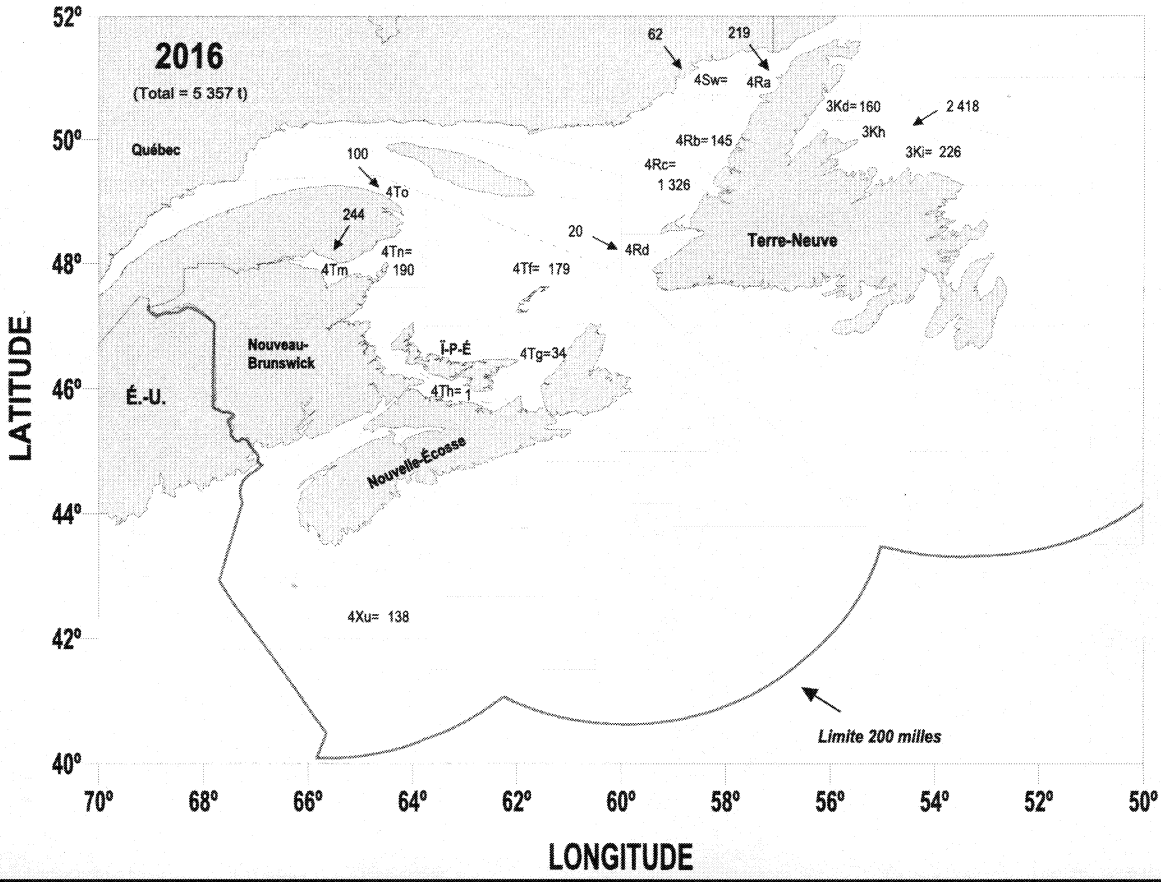
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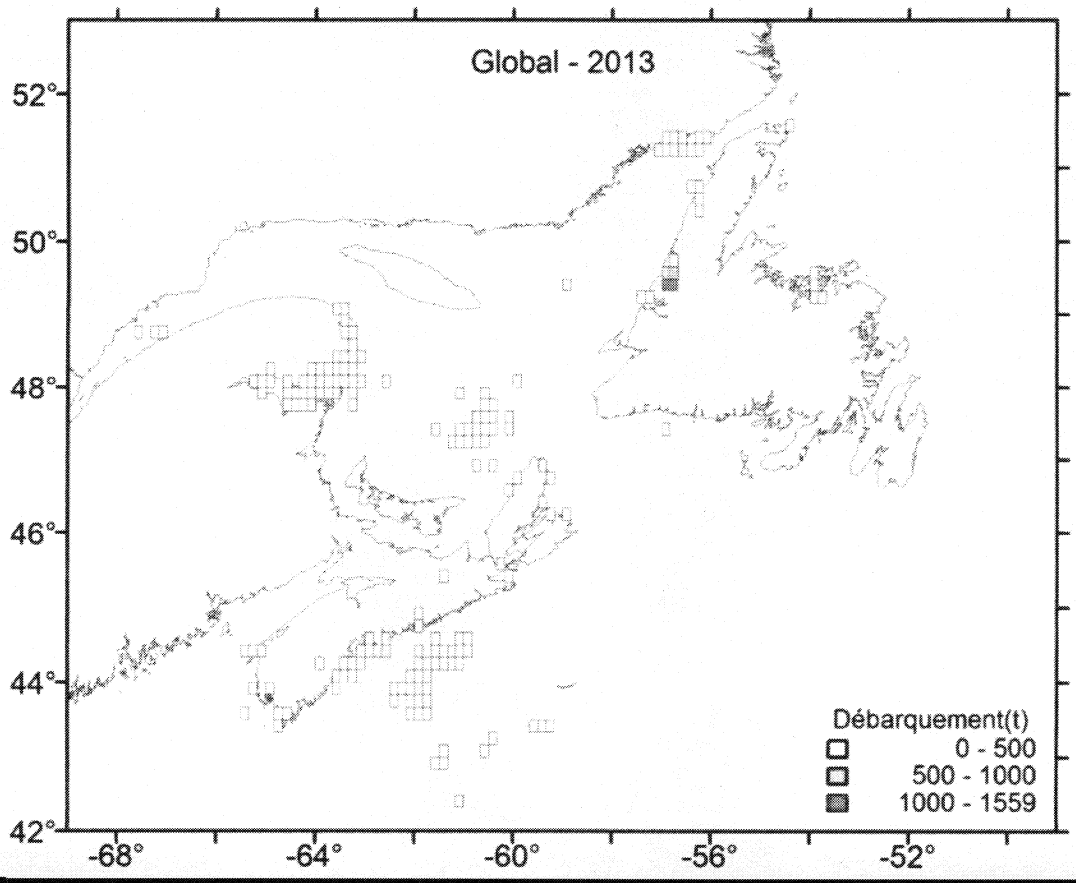






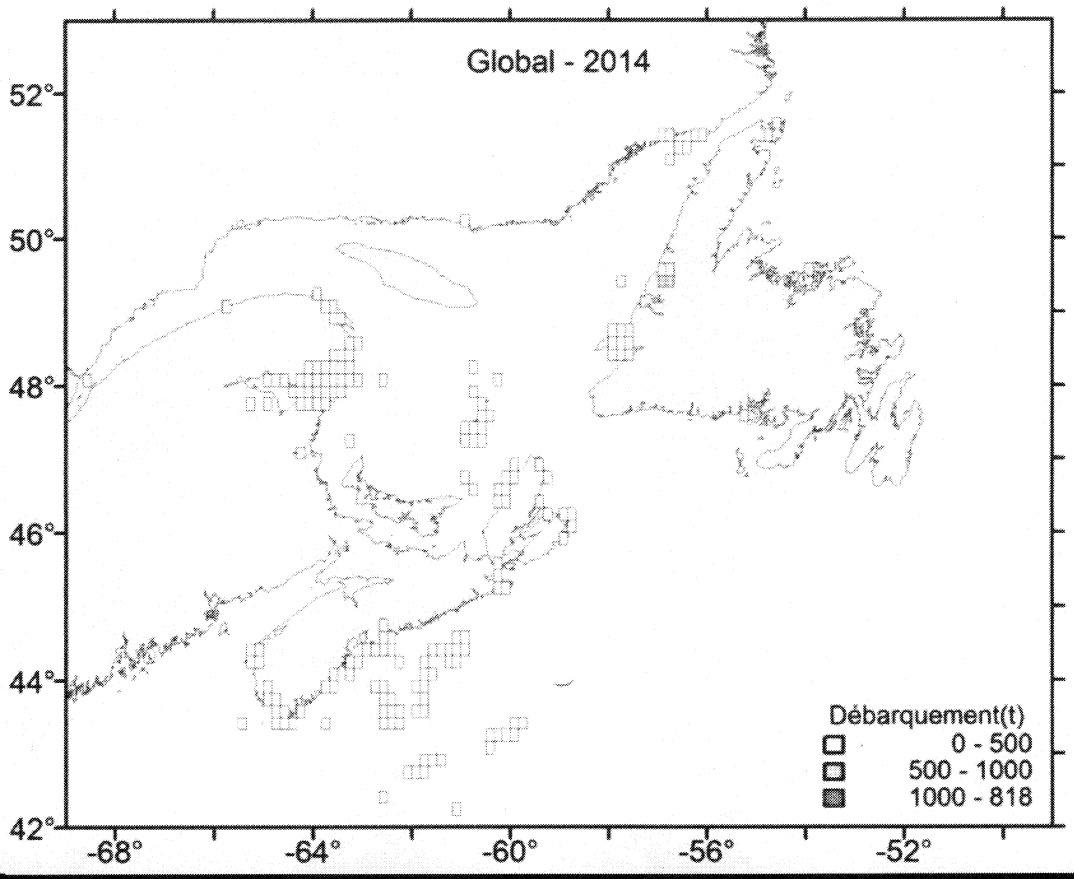
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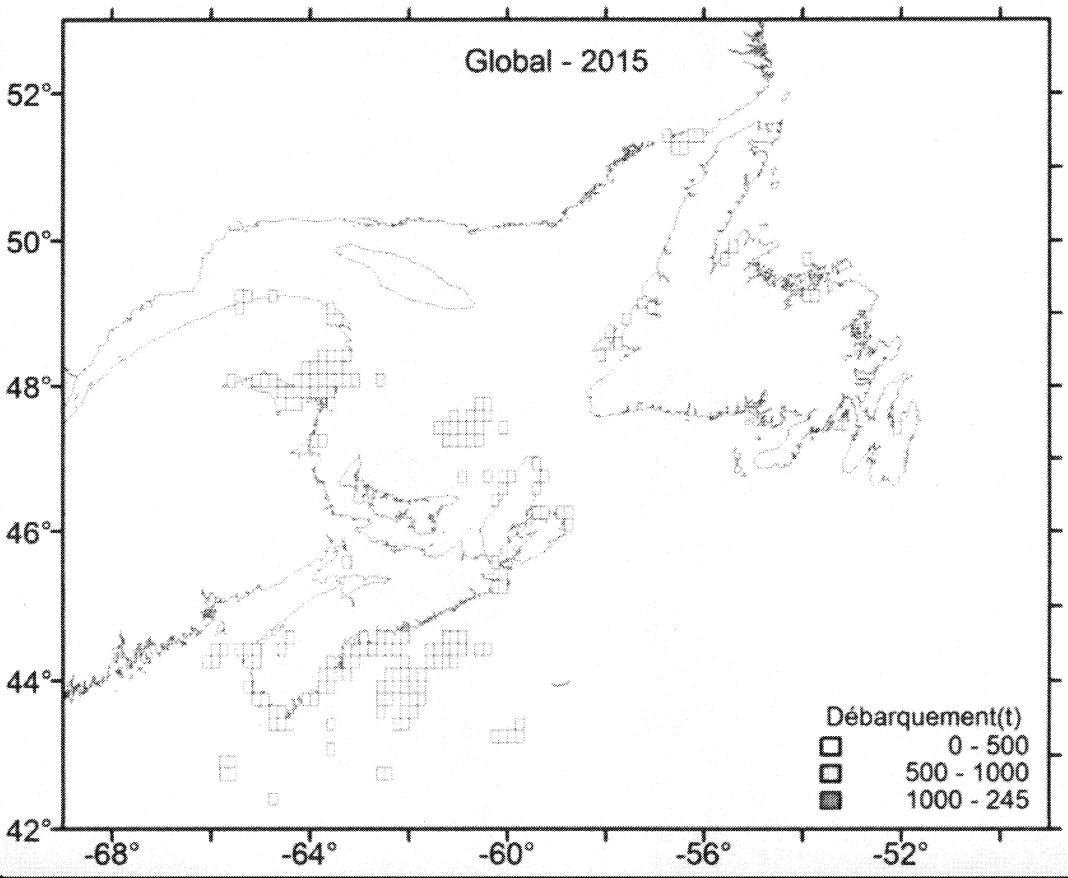




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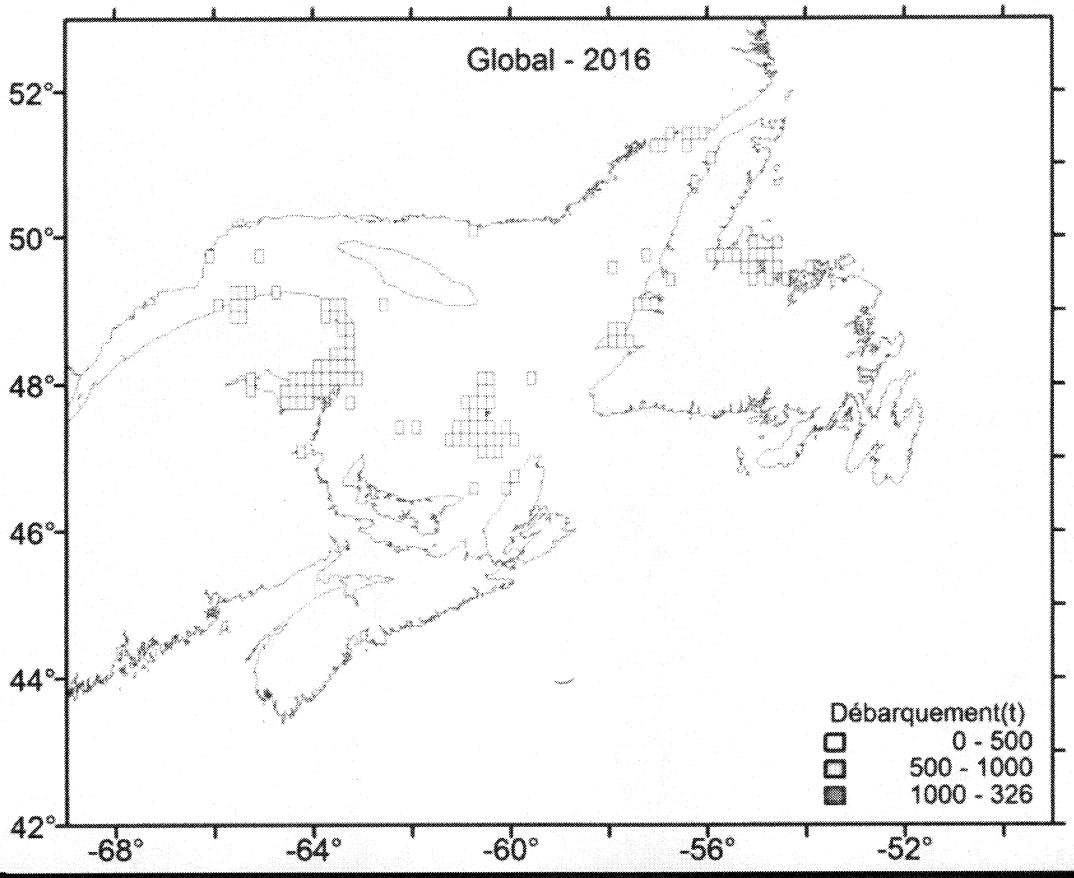
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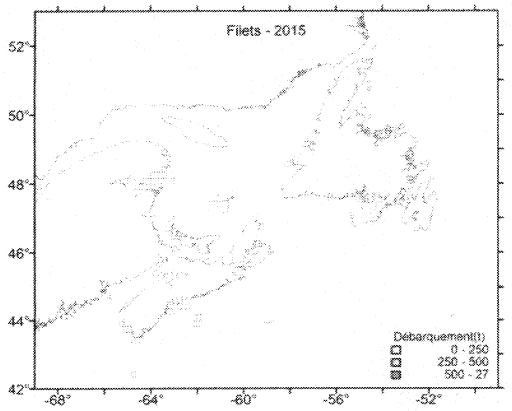


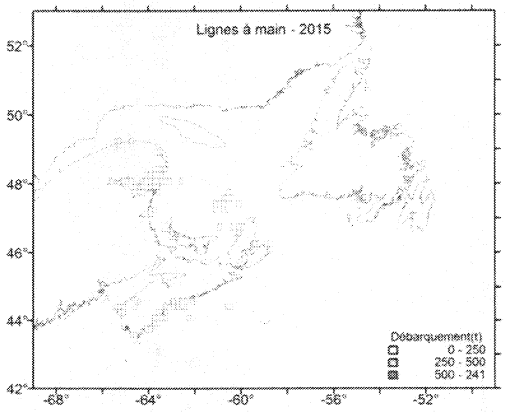


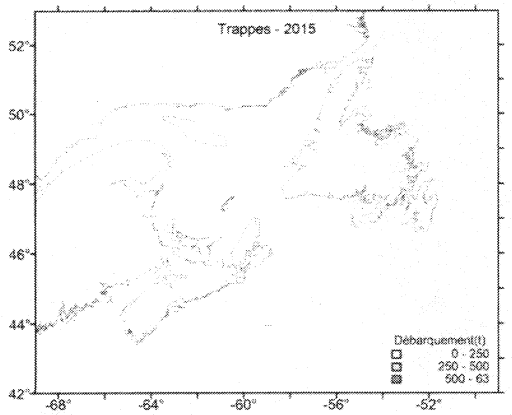
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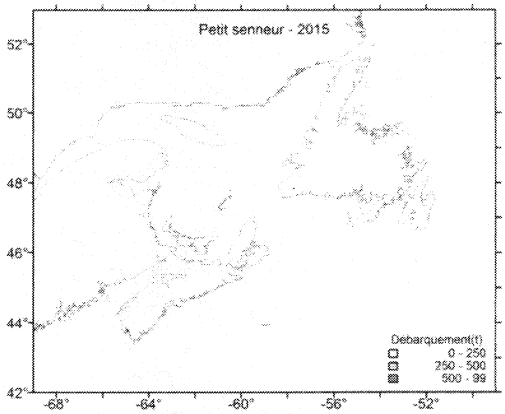
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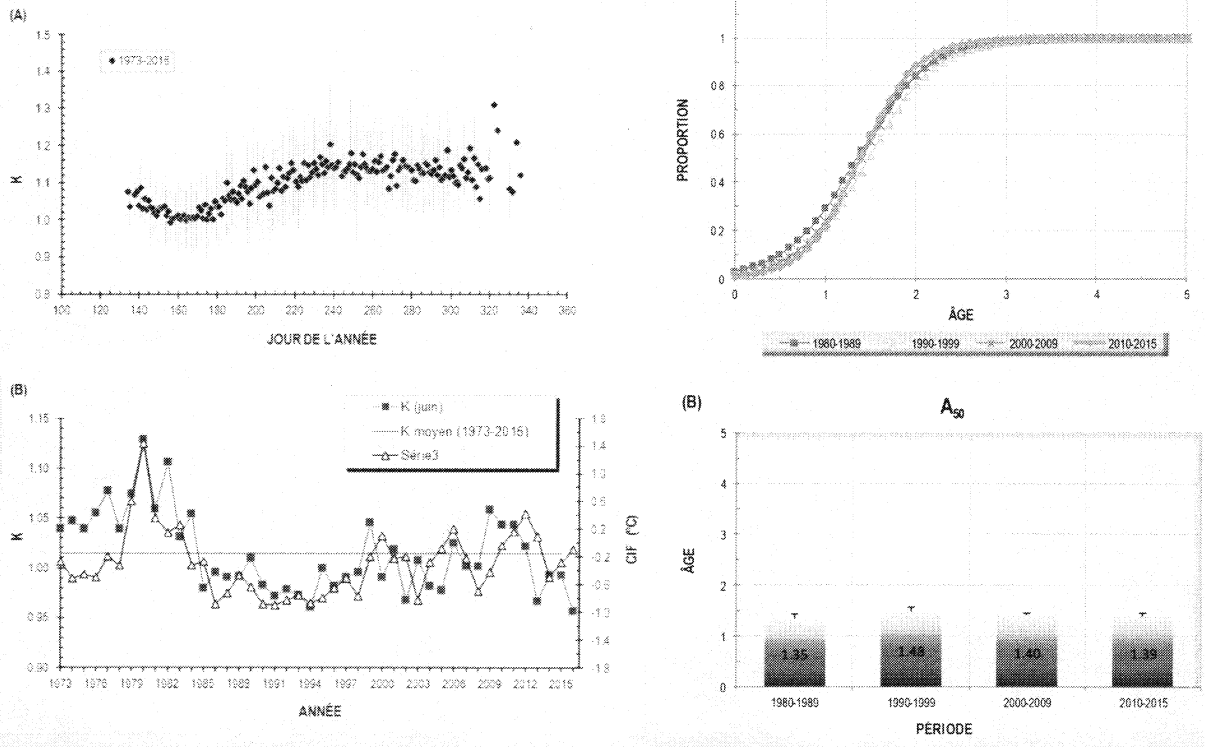




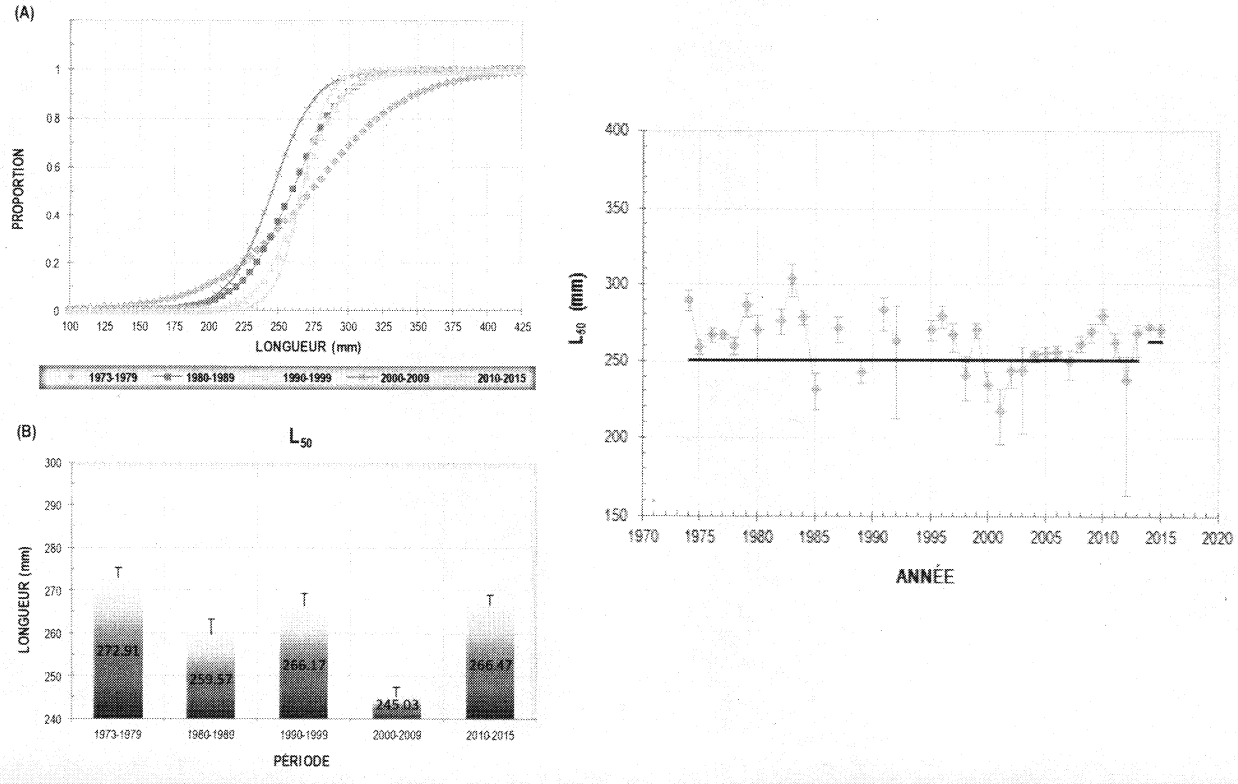


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Biological indicators 2013-2016



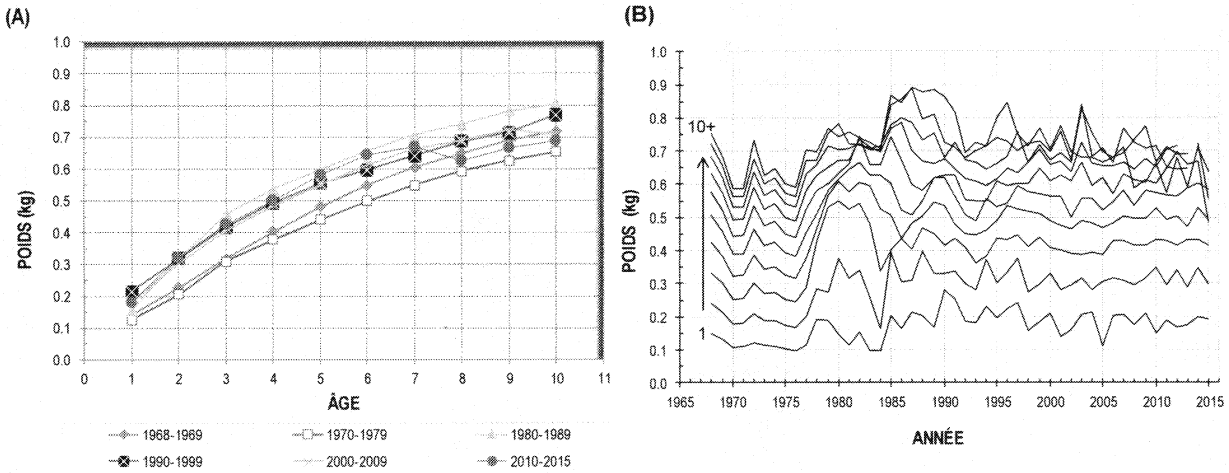
Length at 50% maturity



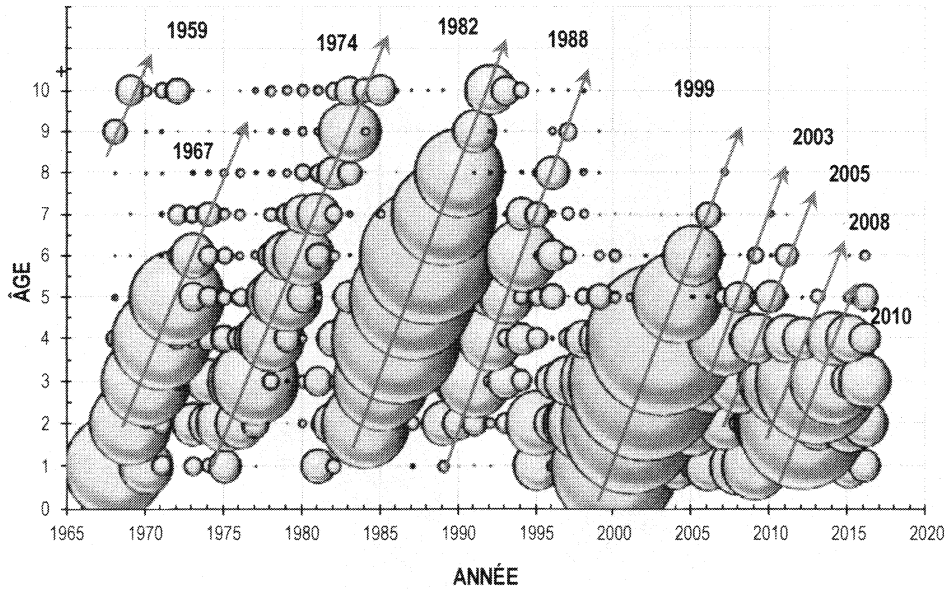
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Weight at age



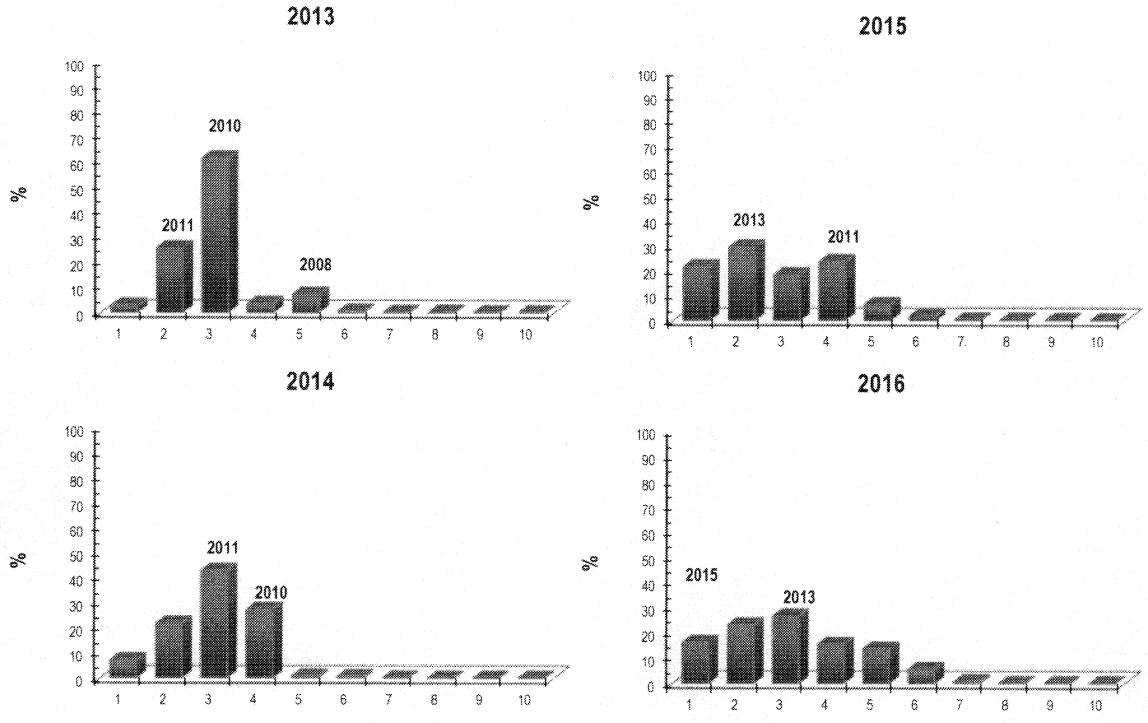
Catch at age



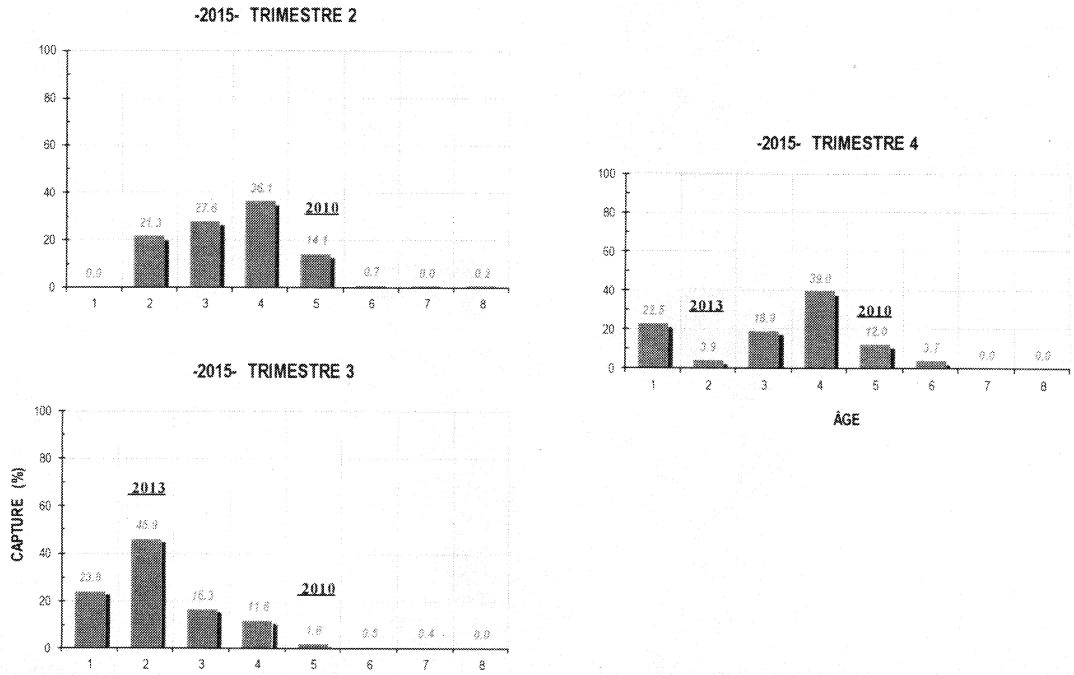
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Catch at age



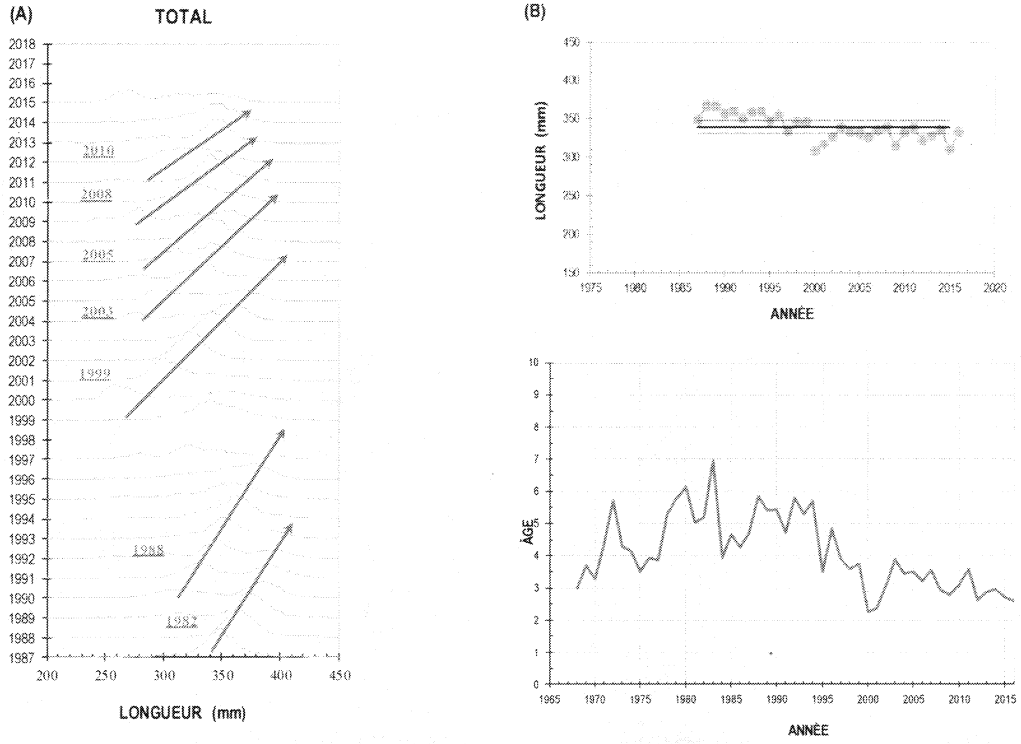
Catch at age: intra-annual variability

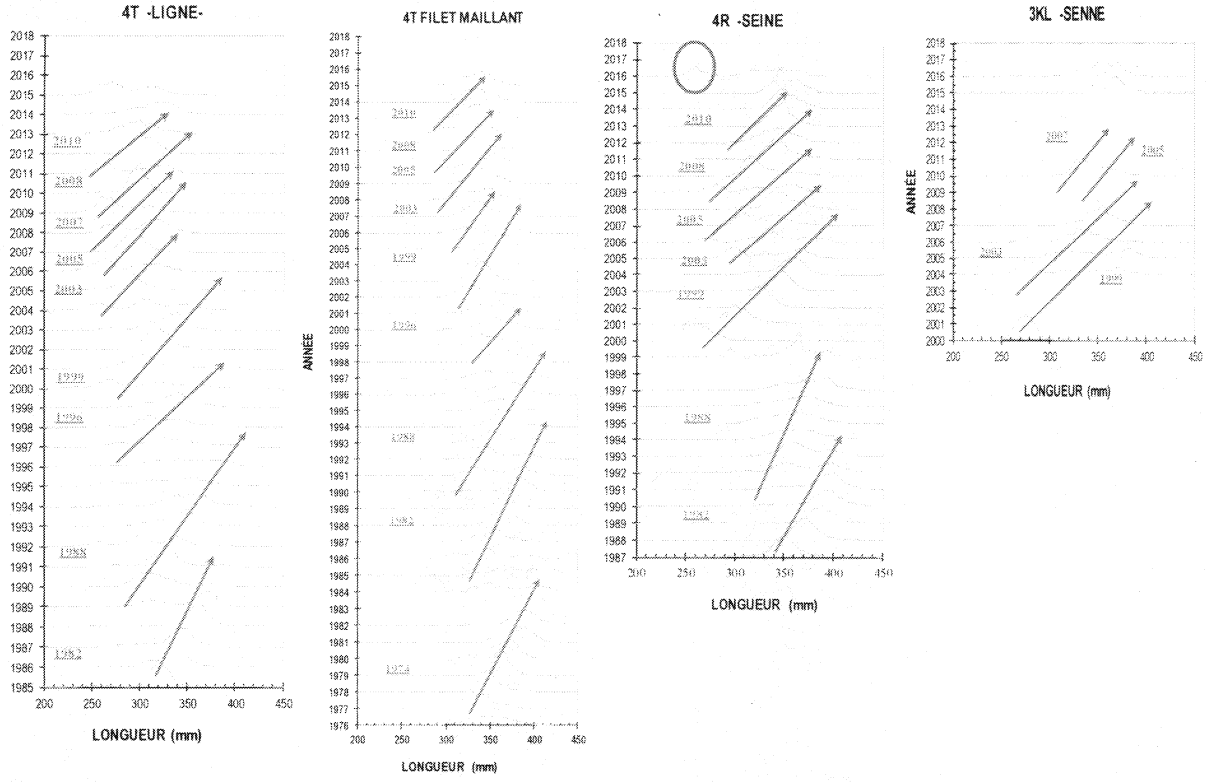


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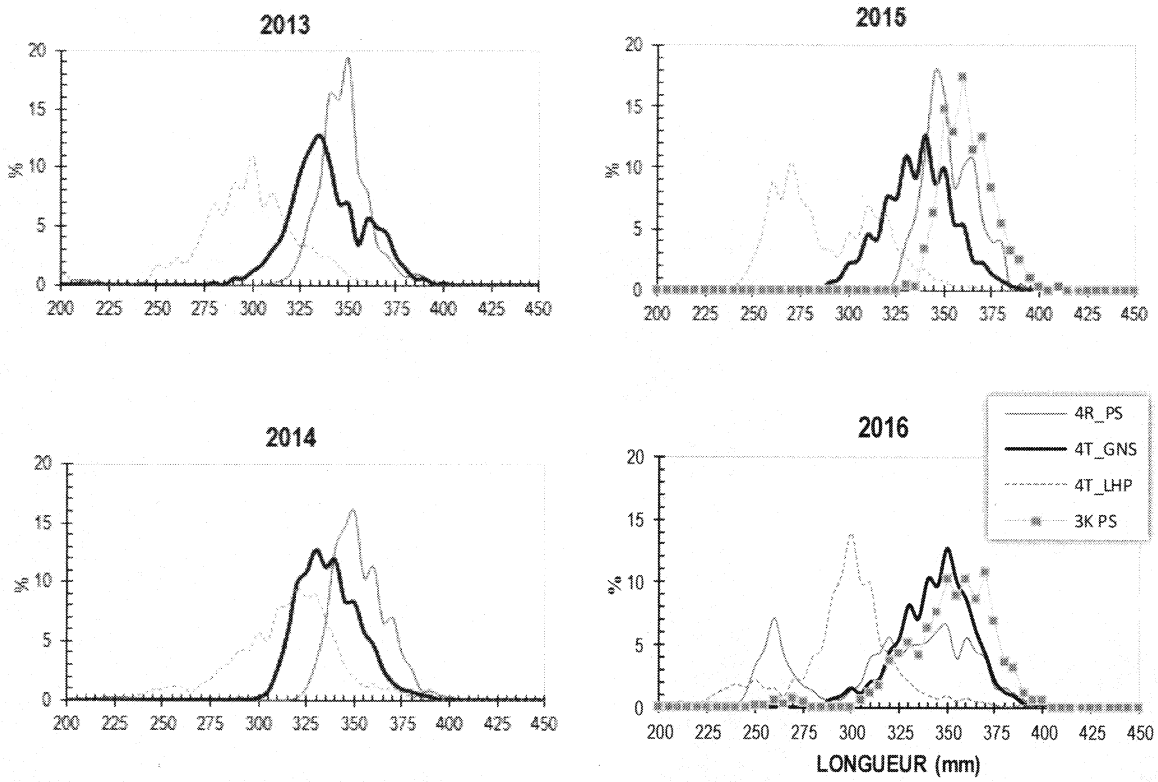
Length frequencies



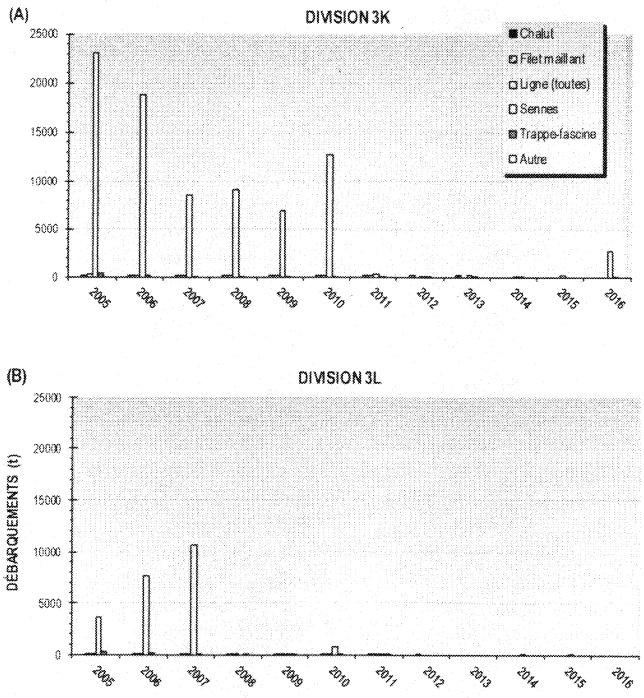


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Length frequencies by gear type



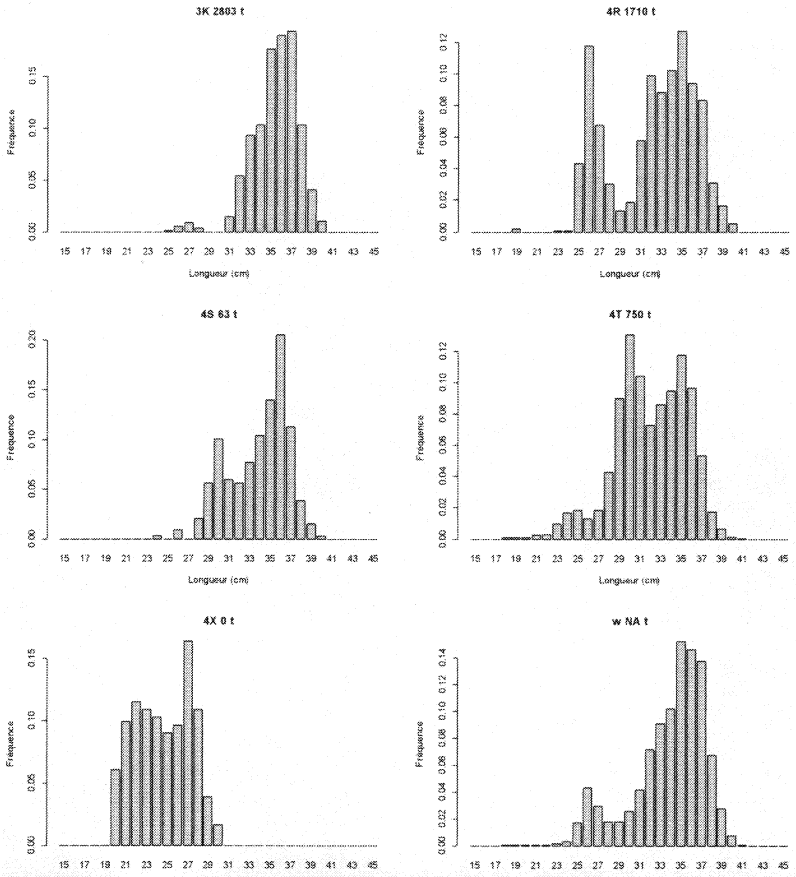
Catches in 3KL



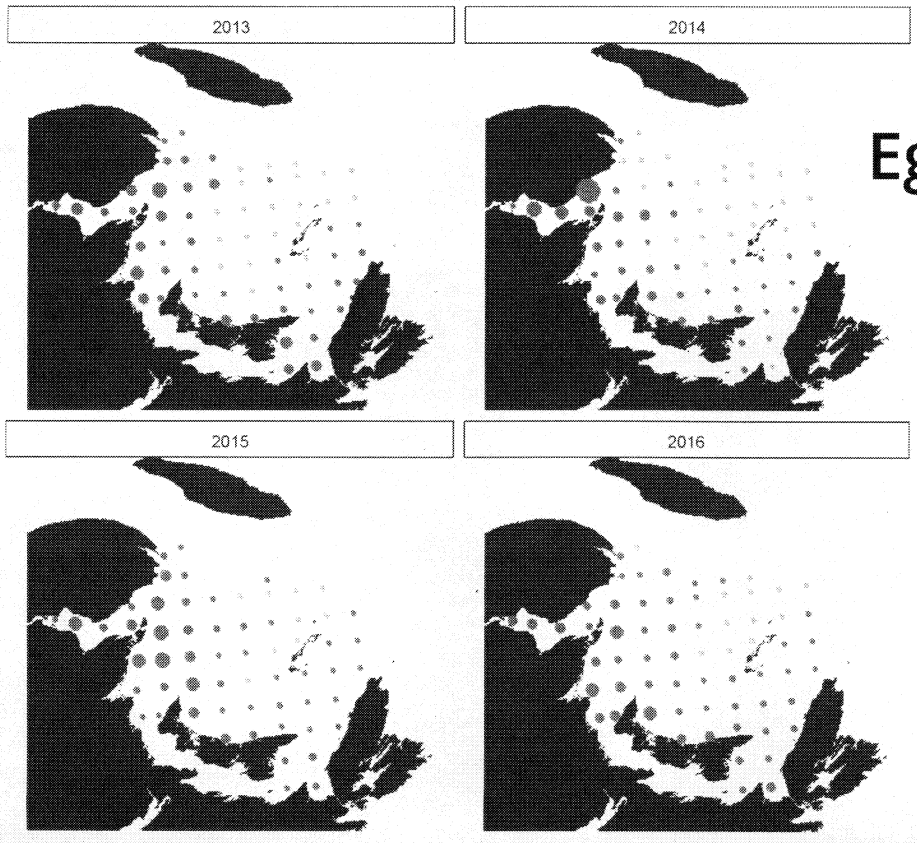
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Length frequencies by area (non-weighted)



Egg surveys

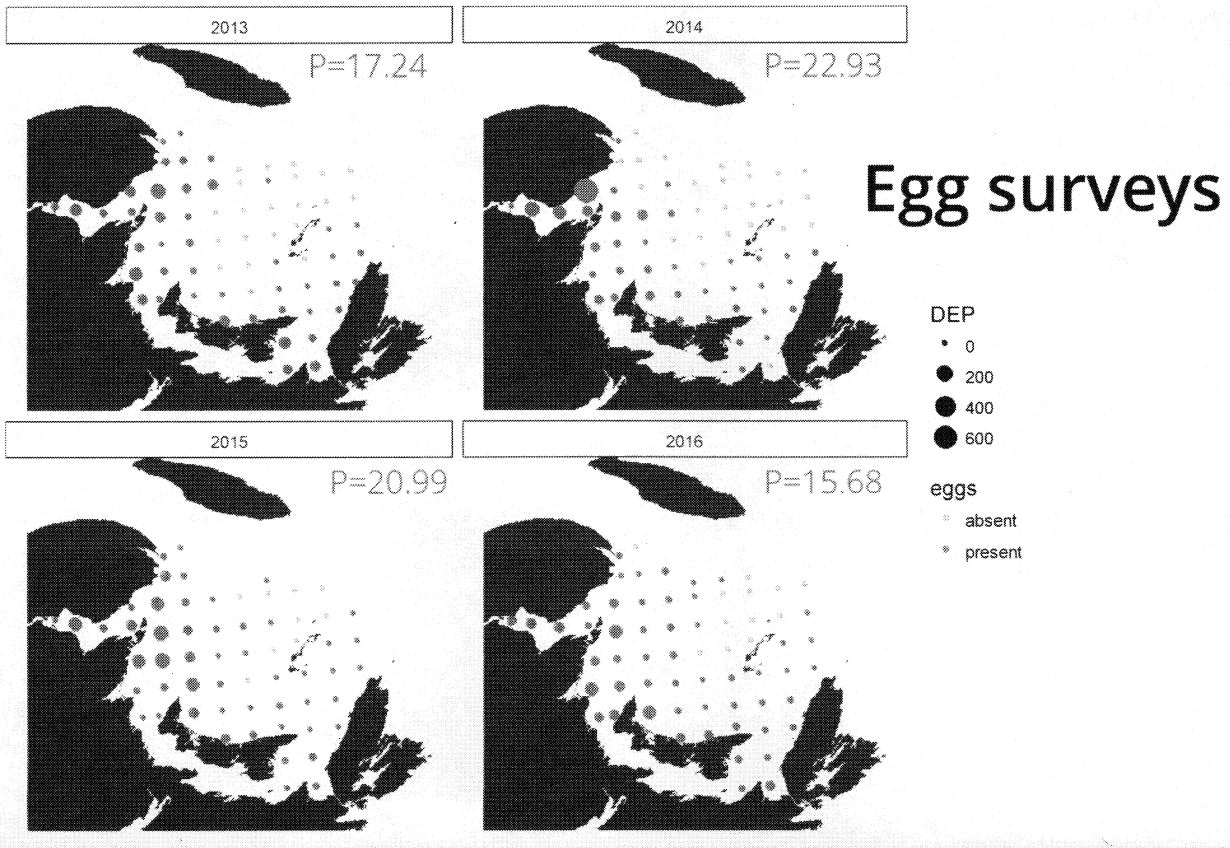


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Calculating P: Mean daily production

- Densities (n/m2) of eggs (stages 1 et 5) by station: number divided by filtered volume (m^3) multiplied by sampled depth (m)
- Converted to daily production (by station) based on incubation time (Lockwood *et al.* 1977) and mean temperatures of 0-10 m layer
- P = stratified mean of all stations



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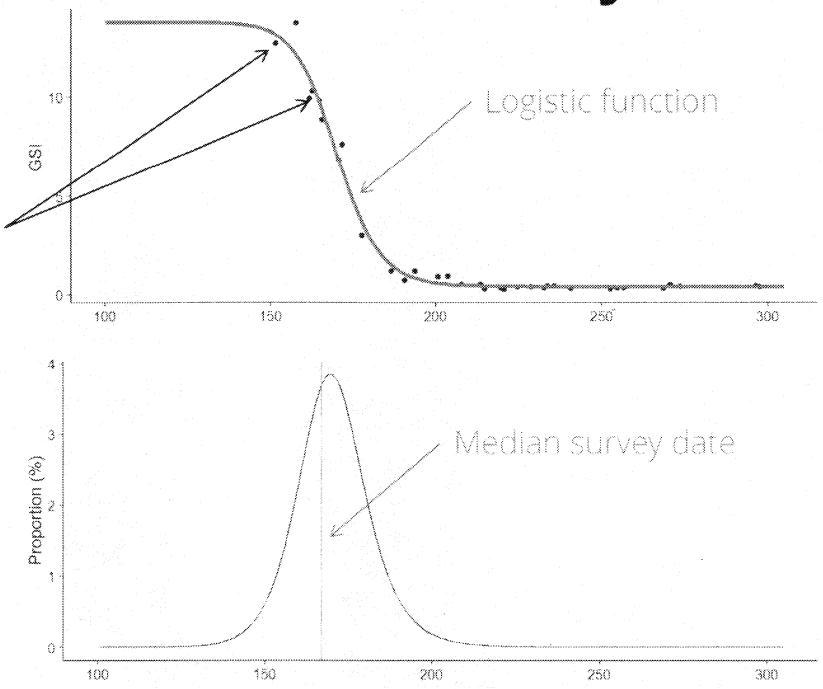
Spawning Biomass

$$B = \frac{P \cdot A \cdot W}{S \cdot F \cdot R \cdot 10^6}$$

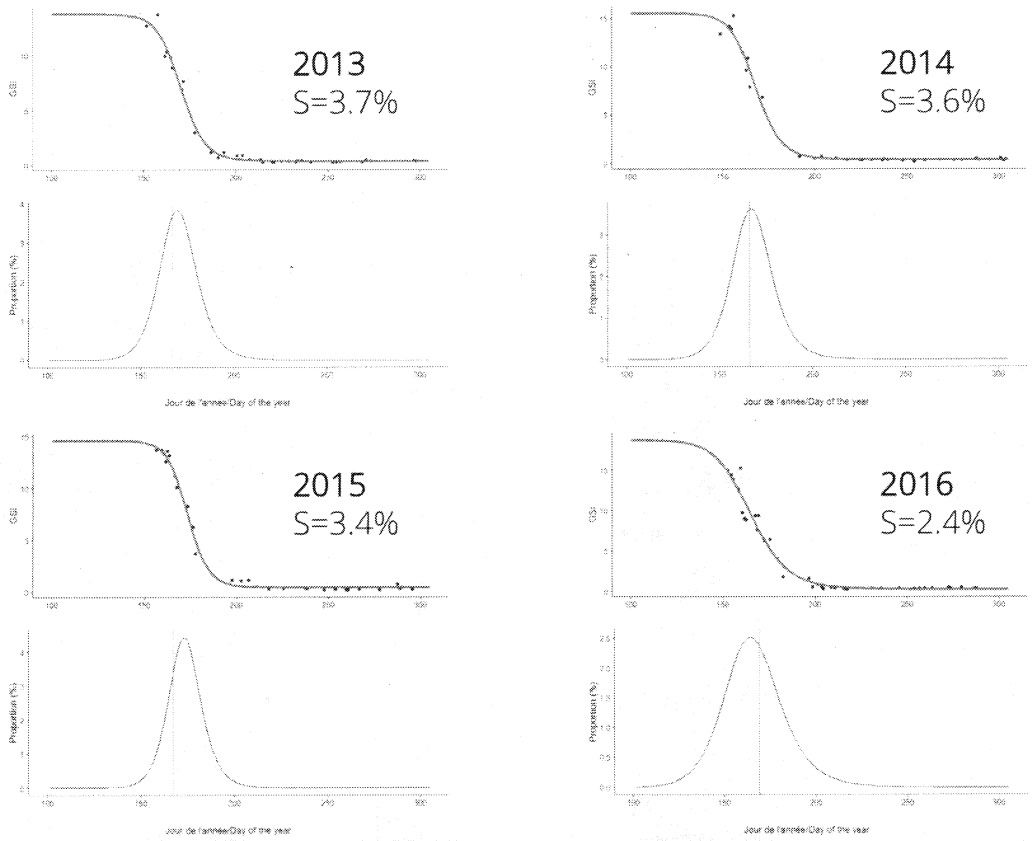
B = SSB (t)
P = Mean daily egg production (n/m^2)
A = Area sampled (6,945 x 10^{10} m^2)
W = Mean weight (g) of fish from biological samples
S = Proportion of eggs spawned at median survey date
F = Fecondity of females (Pelletier 1986)
R = Sex ratio (in biological samples)
10^6 = Conversion grams to tons

Calculating S: Proportion of eggs spawned at median survey date

Mean daily GSI values



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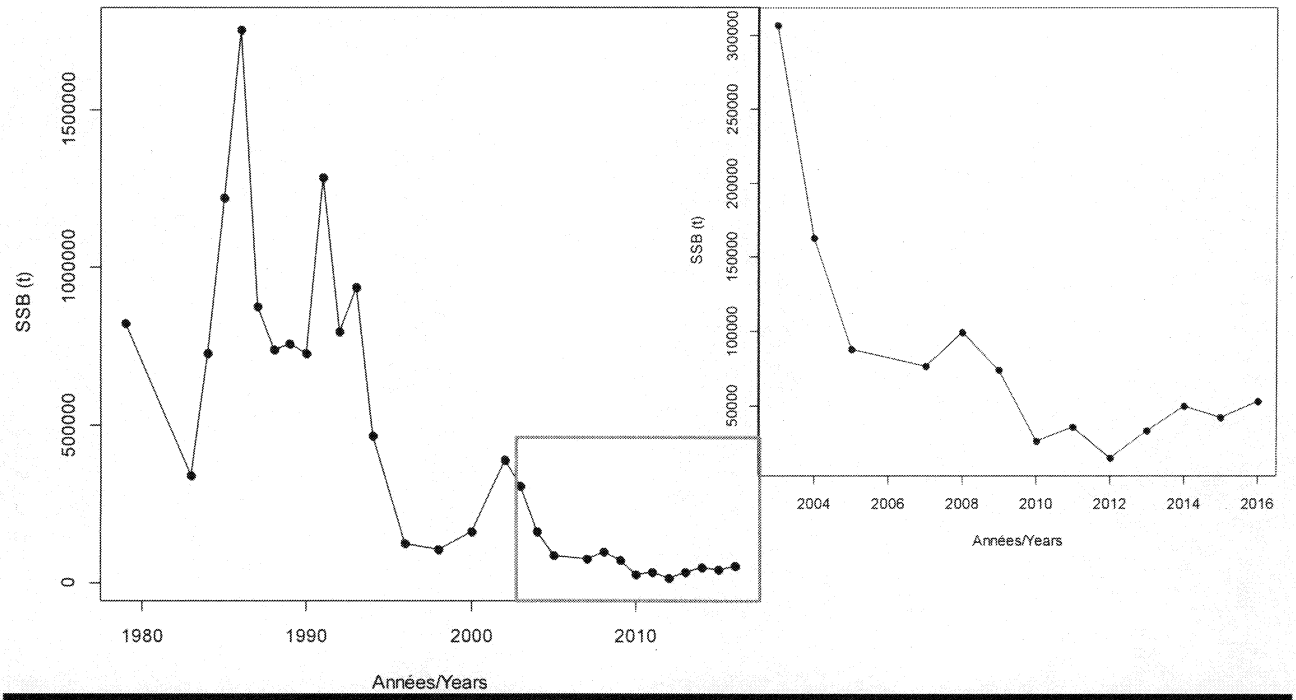
Abundance index (eggs)

Year	P	A	W (g)	S	Fec	R	SSB (t)
2013	17.24	6.94e10	339.1	0.037	641464	0.5126	33 362
2014	22.93	6.94e10	337.1	0.036	577407	0.5170	49 796
2015	20.99	6.94e10	336.5	0.034	667393	0.5237	41 783
2016	15.68	6.94e10	343.8	0.024	575821	0.5212	52 667

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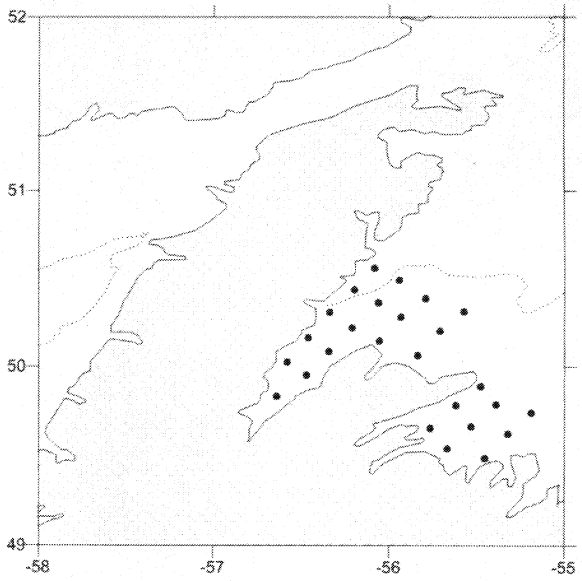
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Abundance index (eggs)



Additionnal egg surveys

- **Objective**: expand surveys to White Bay and Notre Dame Bay
- **Collaborators**: Dr. D. Robert (Memorial University), Dr. M. Castonguay & Dr. P. Pepin (MPO), Dr. E. Carruthers (FFAW)
- **Dates**: June-Aug. 2015 & 2016
- **Results**: no sign of spawning activity



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Analysis of undeclared catches

Elisabeth Van Beveren, Daniel Duplisea & Martin Castonguay
(International Governance Strategy)

2 approaches:

- Review of available data (bait needs, surveys of recreational fishing)
- 2016 online survey

Bait needs

- Newfoundland
  - Few mackerel bought by single buyer and declared
  - MSC: bait used is almost exclusively squid

- Quebec:
  - 2007-2010: telephone survey Magdalen Islands
    => 54-73% catches not declared (bait+discards)
  - 2006-2010: MERINOV report
    => catch 23% higher (crab bait)

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Bait needs

- Southern Gulf
  - 1993/2005/2011: lobster fisher survey (Michel Comeau)
    - => annual bait quantity constant
    - >1990: 1800t (5,38t bait/harvester *0.11% fresh mackerel * ~3000 harvesters)
    - <1990: mackerel bait less important
  - MSC: crab bait: 187,5 t
  - PEI:
    - Lavallee et al., 1997: 43% lobster bait is mackerel
    - Robert MacMillan (resource monitoring program lobster): Past 16 years, herring and mackerel most used lobster baits.

Bait needs

- Nova Scotia:
  - MSC:
    - offshore lobster fishery uses only herring
    - Crab: 2000 t, mostly herring mackerel and squid obtained from the international bait trade
  - Harnish et al. (2002-2004):

    5,216t bait/harvester

    (1682 harvesters, 75% mackerel)

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Bait needs: Tuna

- Catches at leat 5X smaller than for crab/lobster
- Gulf (logbook data)

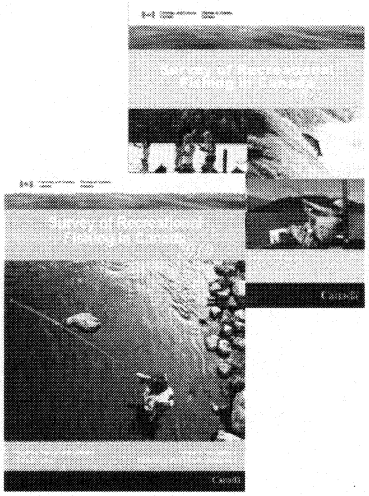
Année	Appât utilisé_Code	Appât utilisé_Description	Montant (lbs) capturé pour appât	Nombre de permis
2013	200	Hareng	12125	280
2013	202	Hareng/Maquereau	1645	41
2013	250	Maquereau	9540	412
2013 Total			**23650**	**764**
2014	200	Hareng	9686	221
2014	202	Hareng/Maquereau	741	32
2014	250	Maquereau	11508	577
2014 Total			**22765**	**856**
2015	200	Hareng	9001	241
2015	202	Hareng/Maquereau	2660	55
2015	250	Maquereau	12068	590
2015 Total			**25323**	**959**

Recreational fishing

Survey of Recreational Fishing Canada
Every 5 years (1990-2010), per province

PEI and NS: mackerel second main species caught by anglers in Canada (after trout) and including all freshwater species. In contrast to freshwater species, mackerel are also kept in most of the cases.

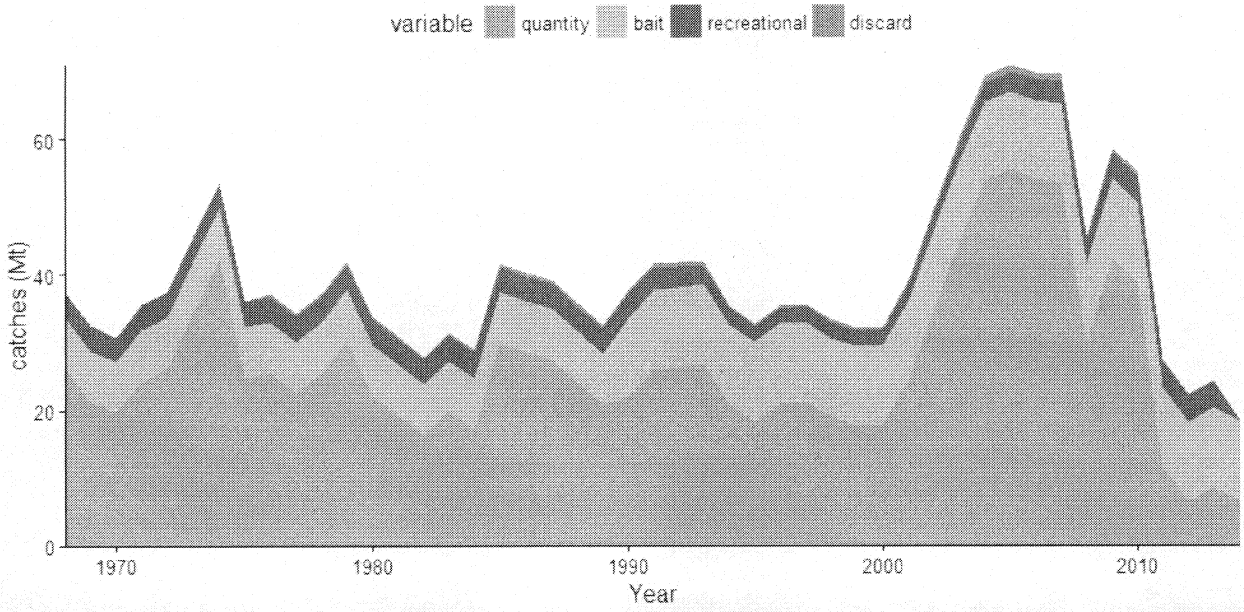
BUT:
- Does not include Quebec
- Only licensed anglers
- If semi-commercial: not honest about it



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Estimation of maximum undeclared catches



Online survey 2016

- 3453 mails (QC, NB, NS,PEI)
- Three facebook groups
- Radio IM
- Forums
- NovaNews

Input sought for mackerel research



000871

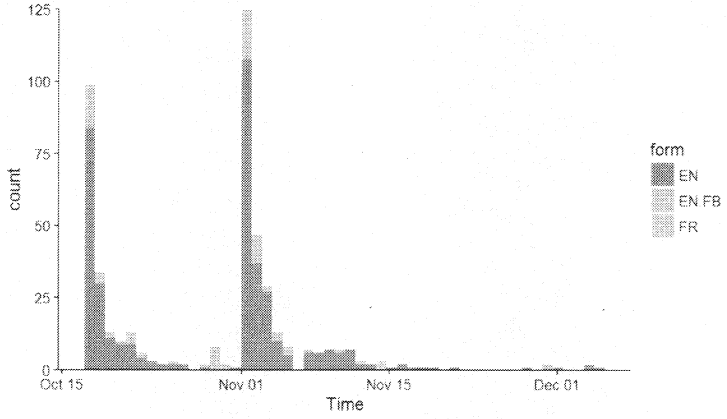
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Answers

17/10/2016 - 04/12/2016:

476 forms with at least one valuable answer (7% FB)

English 89%, French 11%



Survey power?

In comparison:

1) Number of licenses 2014 (DFO stats): 8082

=> 390 answers were from licensed fishers = AT LEAST 5%

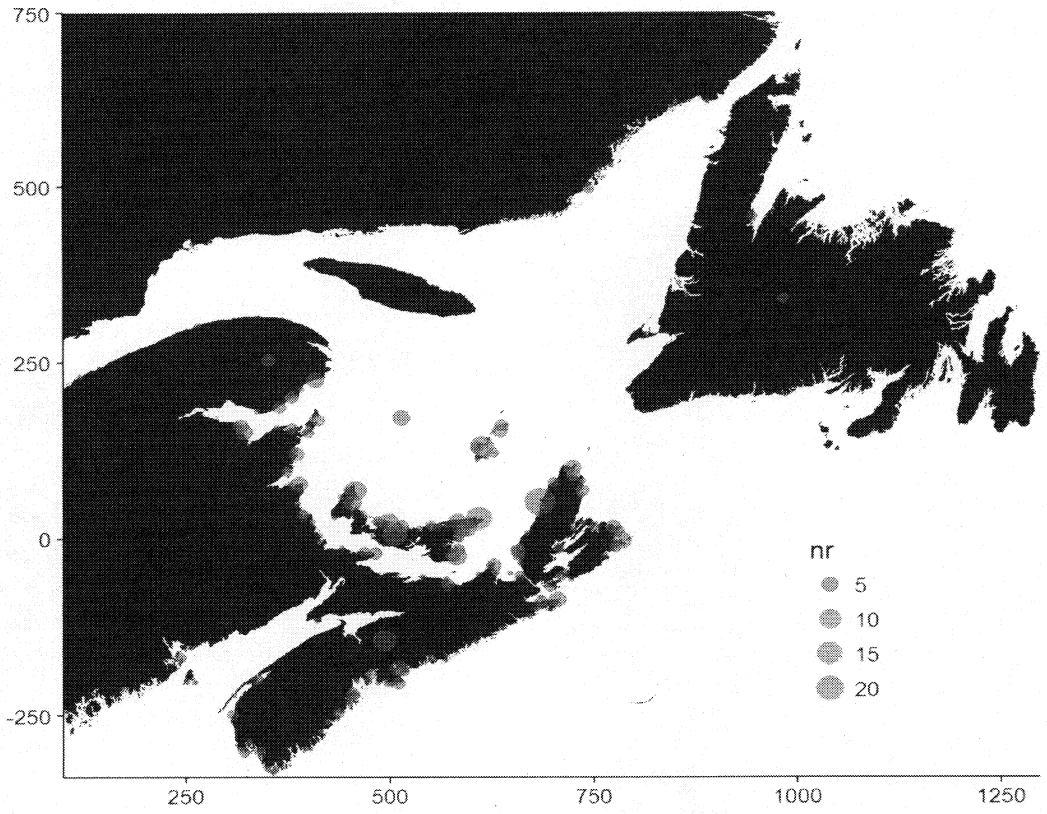
SPECIES	NOVA SCOTIA		NEW BRUNSWICK		P.E.I. GULF	QUEBEC	NEWFOUNDLAND	TOTAL ATLANTIC
	MARITIMES	GULF	MARITIMES	GULF				
MACKEREL	1,909	455	70	1,112	1,209	868	2,265	8,082

2) Catch 2016: ~8000t (TAC)

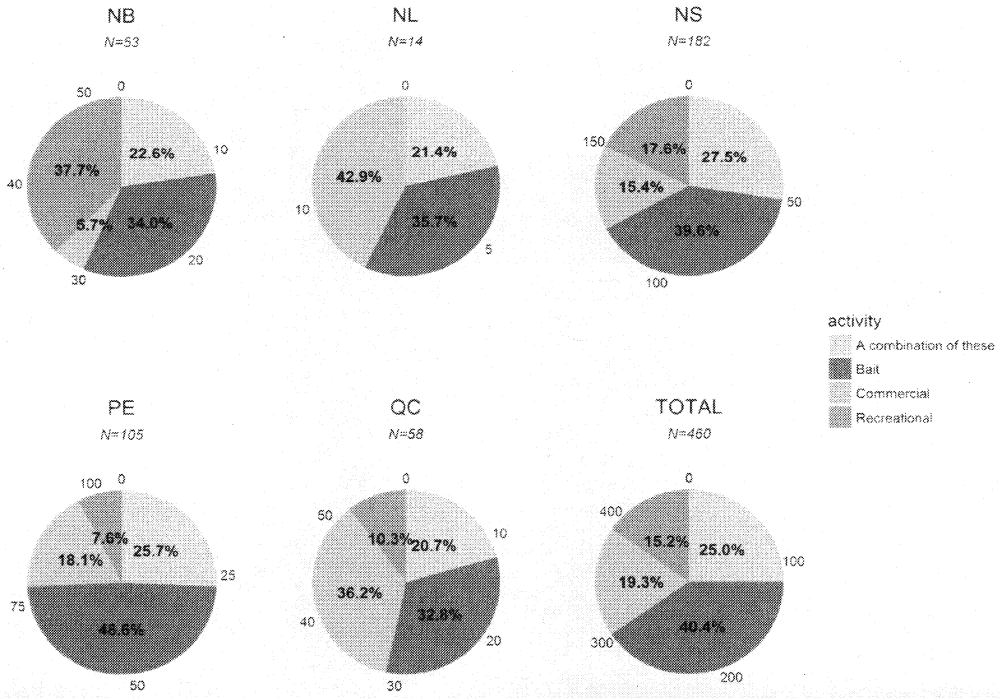
=> declared catch survey participants: 1536t = 19%

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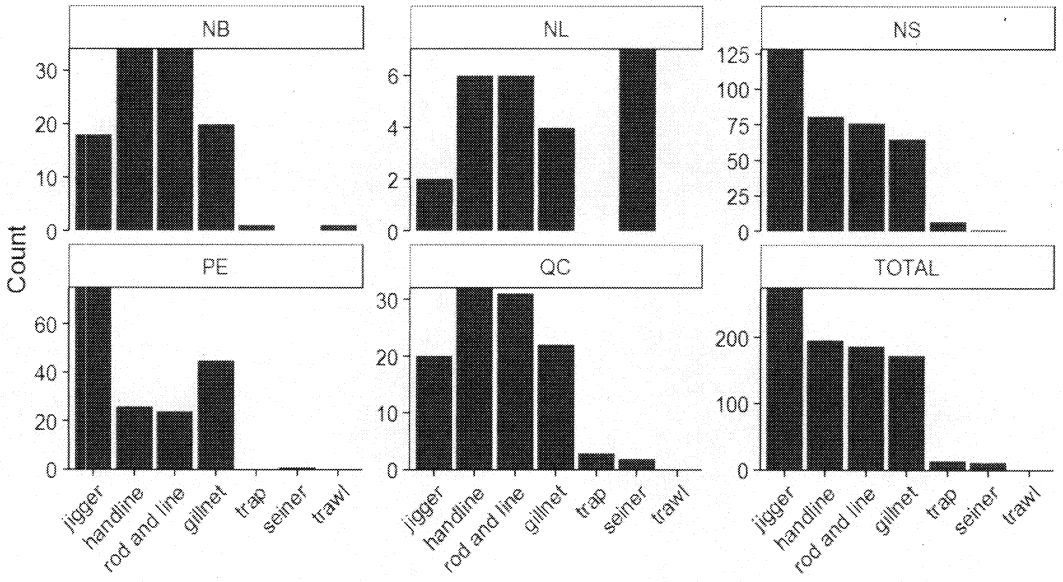
Activity



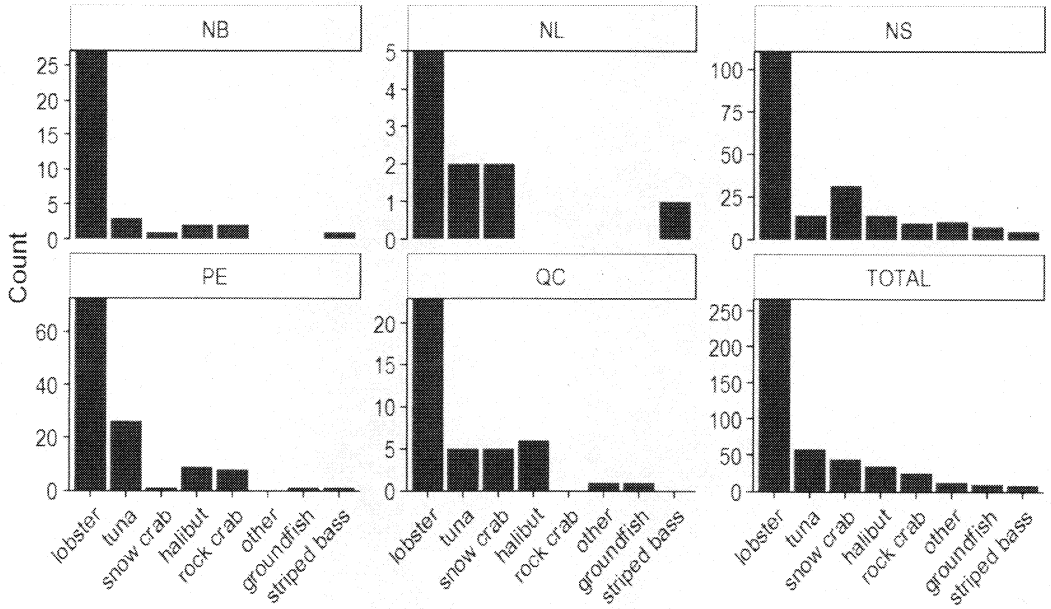
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Gear type

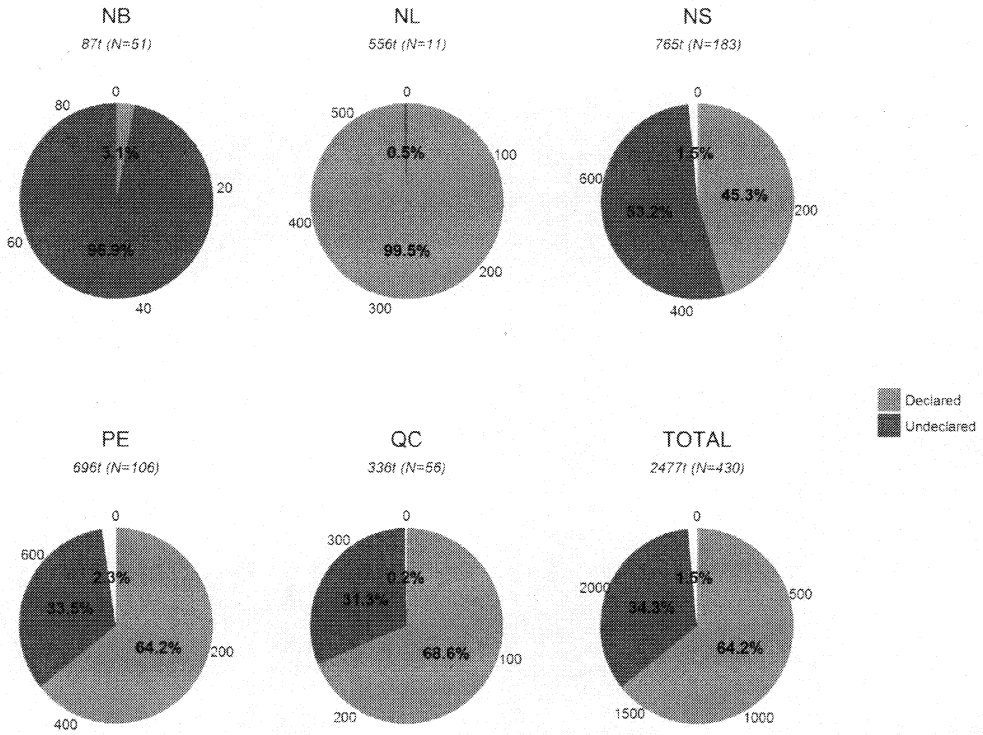


Bait use



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Declared vs undeclared



Previous assessments

1986 – 2012:

- SPA don't converge (F << M)
- M = 0.3 then 0.2
- CPUE indices (abandonned)
- Egg index = absolute

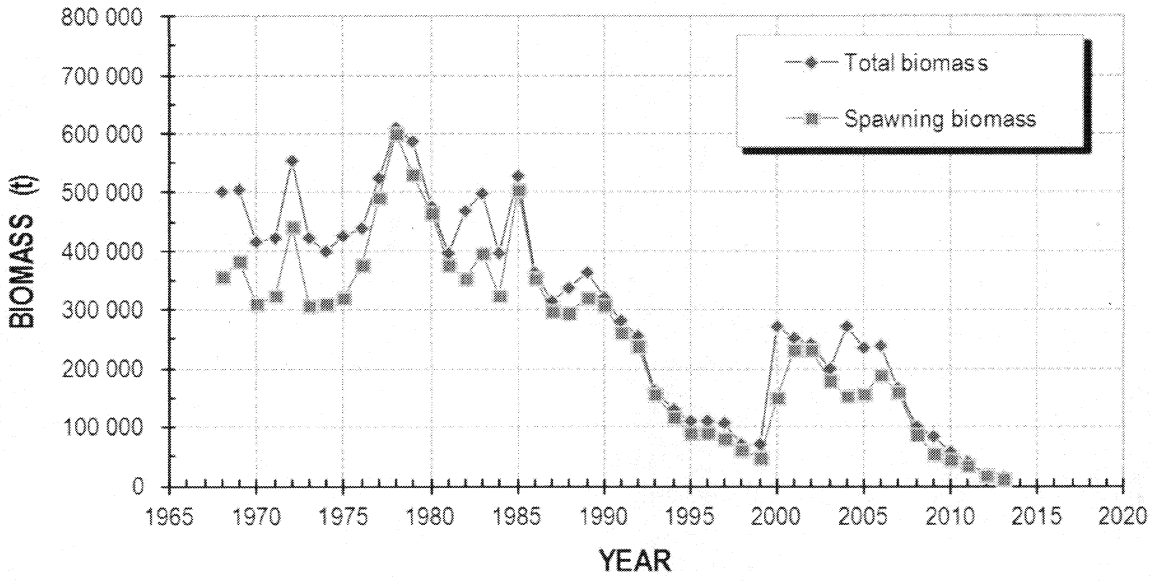
2012 & 2014:

- Integrated catch-at-age
- Fitted to egg index (>1996)
- M_{2012}=0.2, M_{2014}= Gislason et al. (2010)

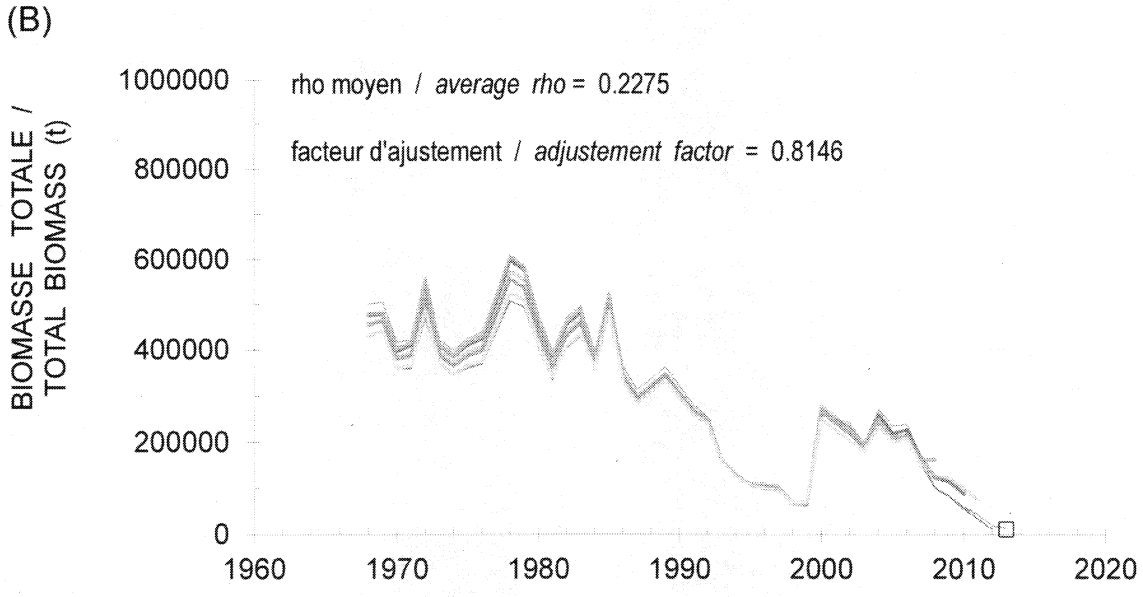
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2014 analytical assessment



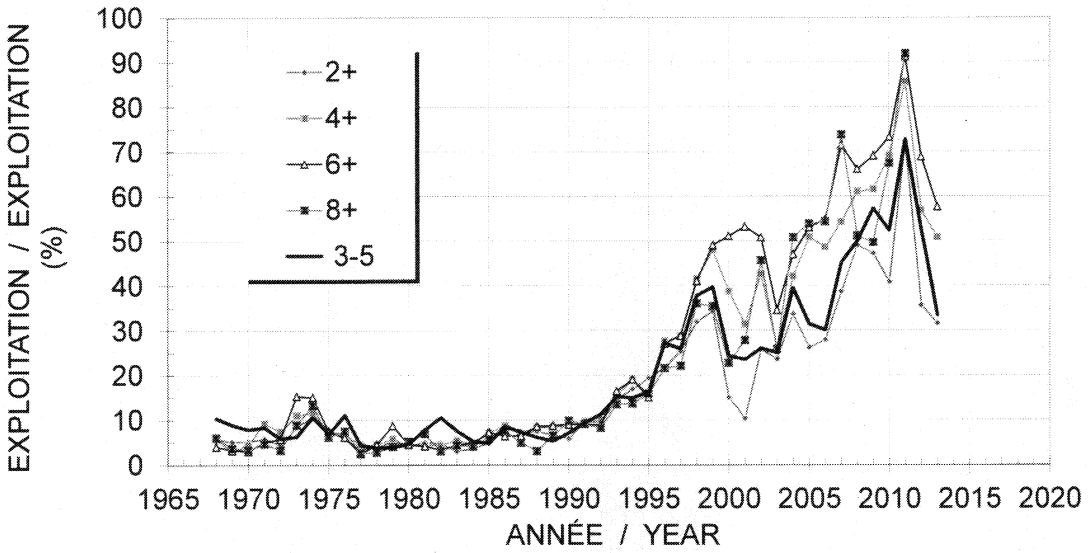
Retrospective patterns



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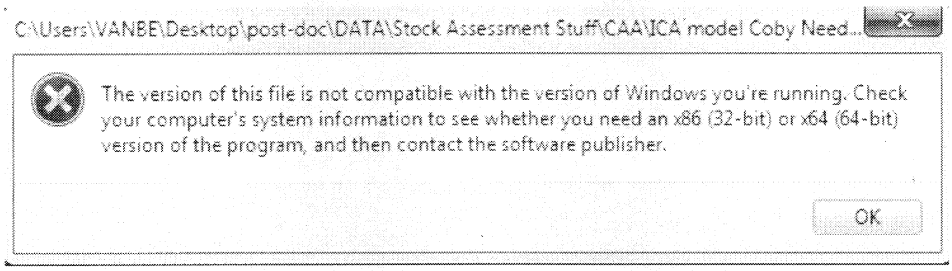
Exploitation rates

(C)



Issues

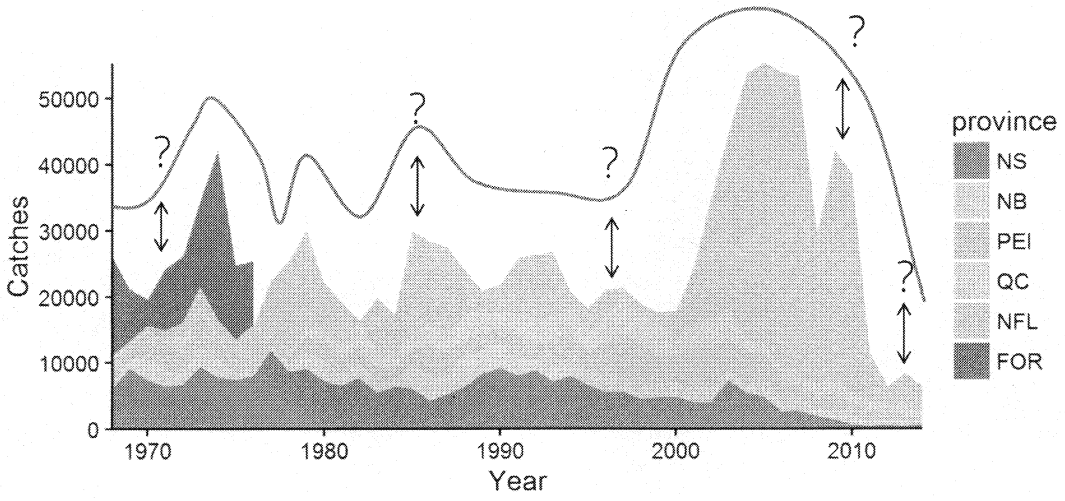
- « ICA » obsolete and not compatible
- Cannot include undeclared catches
- Unrealistic exploitation rates



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« Censored » approach



« Censored » approach

2005 **Censored catch data in fisheries stock assessment**

T. R. Hammond and V. M. Trenkel

2010 **Detecting and correcting underreported catches in fish stock assessment: trial of a new method**

Nicolas Bousquet, Noël Cadigan, Thierry Duchesne, and Louis-Paul Rivest

2016 A state-space stock assessment model for northern cod, including under-reported catches and variable natural mortality rates[1]

Noel G. Cadigan

000878

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General structure

$$N_{a,y} = \begin{cases} f(SSB_{y-1}, E_{y-1}), & a = 1 \\ N_{a-1,y-1}\exp(-Z_{a-1,y-1} + \delta_{a,y}), & a = 2, \ldots, A-1 \\ N_{a-1,y-1}\exp(-Z_{a-1,y-1} + \delta_{a,y}) + N_{a,y-1}\exp(-Z_{a,y-1} + \delta_{a,y}), & a = A \end{cases}$$

Total mortality (Z) = Natural (M) + Fishing (F) mortality

↓ Fixed ↓ Parameter

Gislason F=Fy*Fa

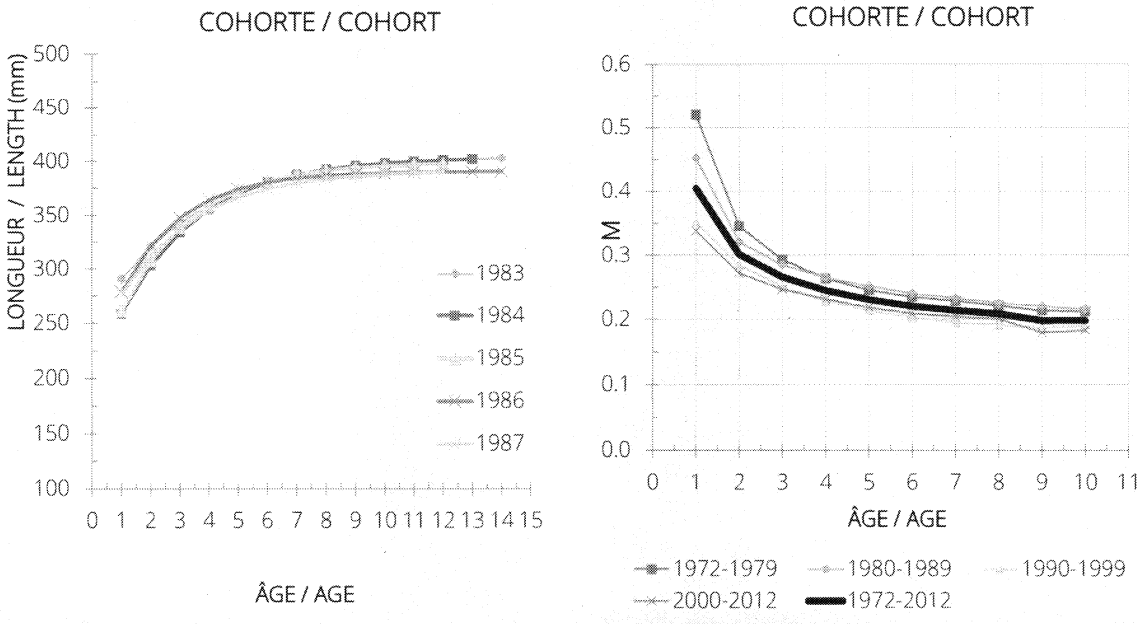
↙ ↘

Random walk Identical for ages 4-10

Recruitment = Beverton-Holt + environmental effect
Process Error (autoregressive over years and ages)

Natural mortality (2014)

Calcul de M / *M Calculation*
Modèle de Gislason *et al.* 2010



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General structure

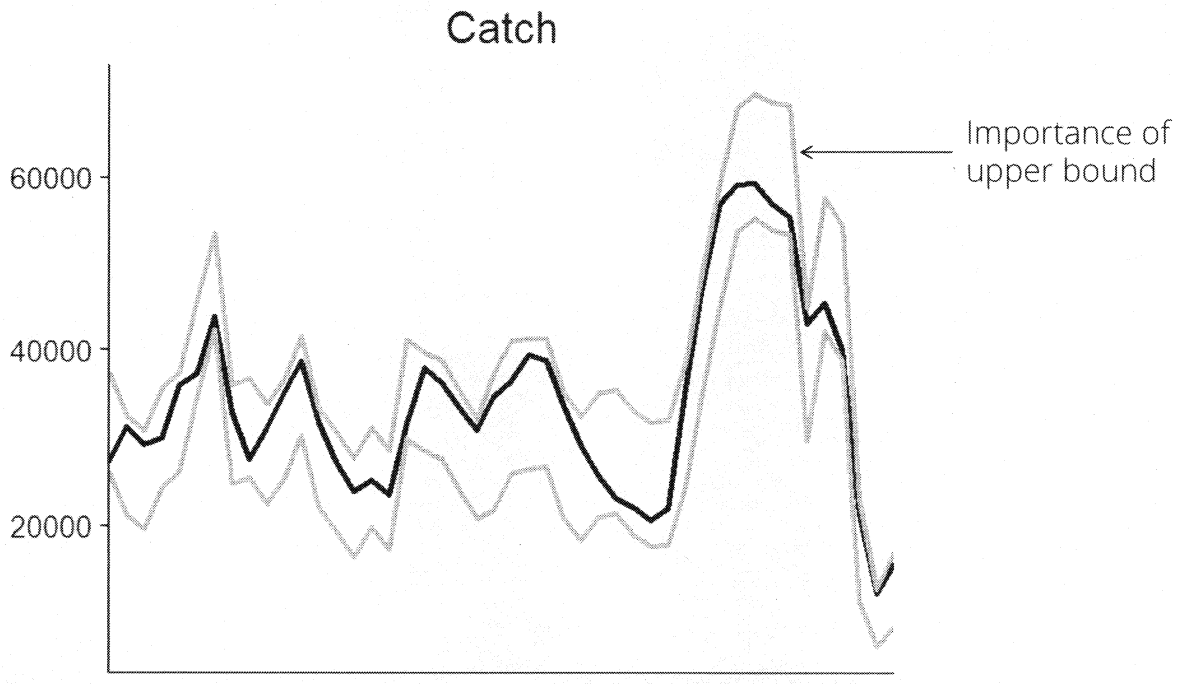
- Catch at age/year (Baranov equation):

$$C_{a,y}=N_{a,y}\frac{F_{a,y}}{Z_{a,y}}[1-\exp(-Z_{a,y})]$$

- Survey index:

$$I_y=\sum_{y=1}^{Y} qN_{a,y}exp(-Z_{a,y}t_s)Weight_{a,y}PropMature_{a,y}$$

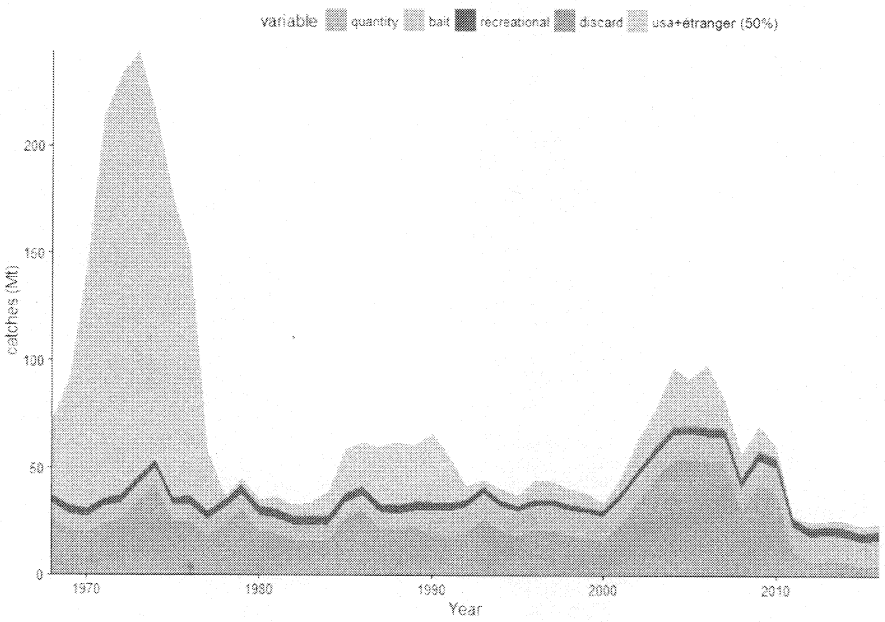
Censored version



000880

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Limite supérieure informée



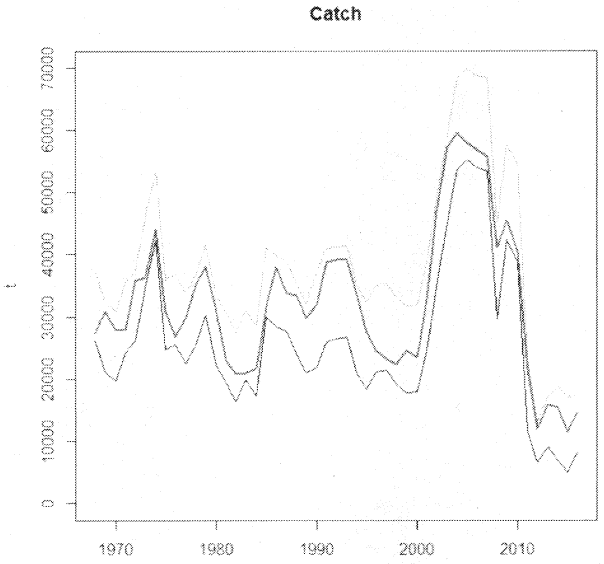
3 versions du modèle

- Version 1: non-censurée (prises = déclarées)
- Version 2: censurée informée (Canada)
- Version 3: censurée avec Canada + 50% prises US et étrangères

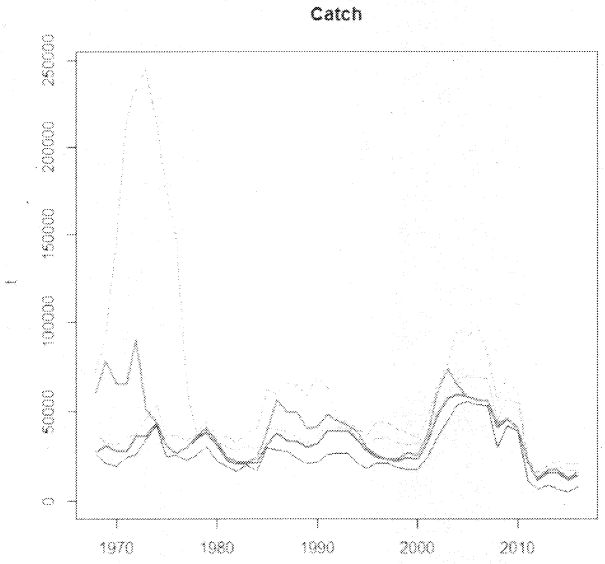
Fisheries and Oceans Canada
Évaluation du maquereau bleu 8 – 9 mars 2017

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Résultats versions 1 et 2

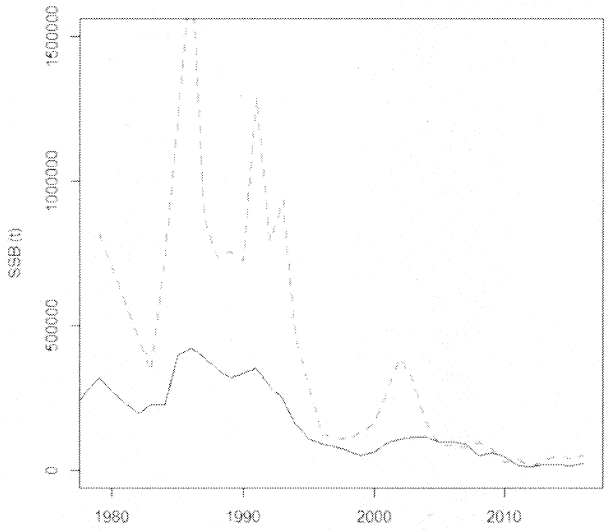


Résultats version 3 (+US/foreign)

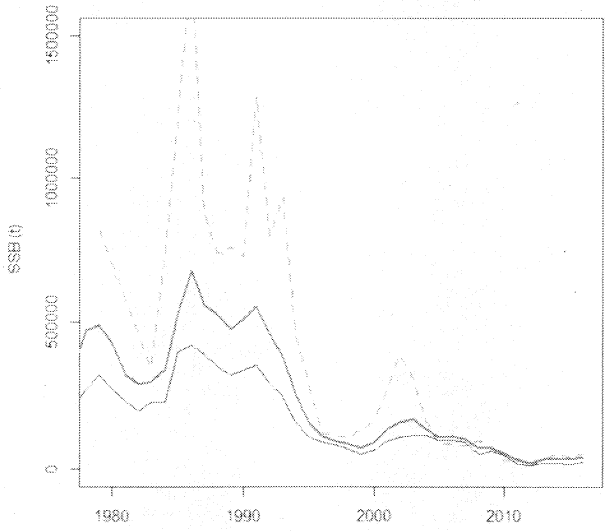


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Résultats version 1 (non-censurée)

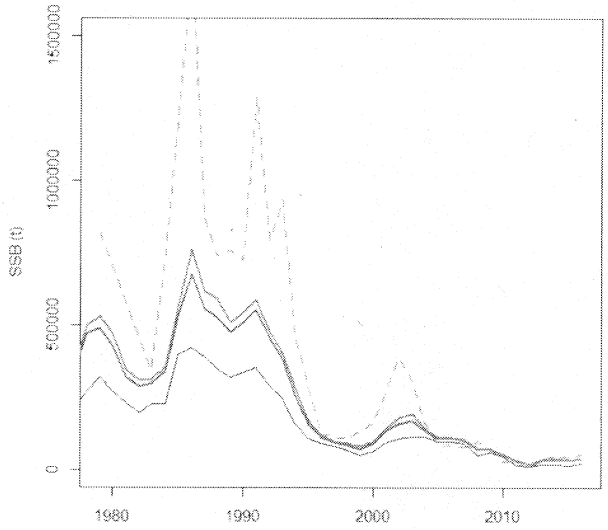


Résultats version 2 (censurée)

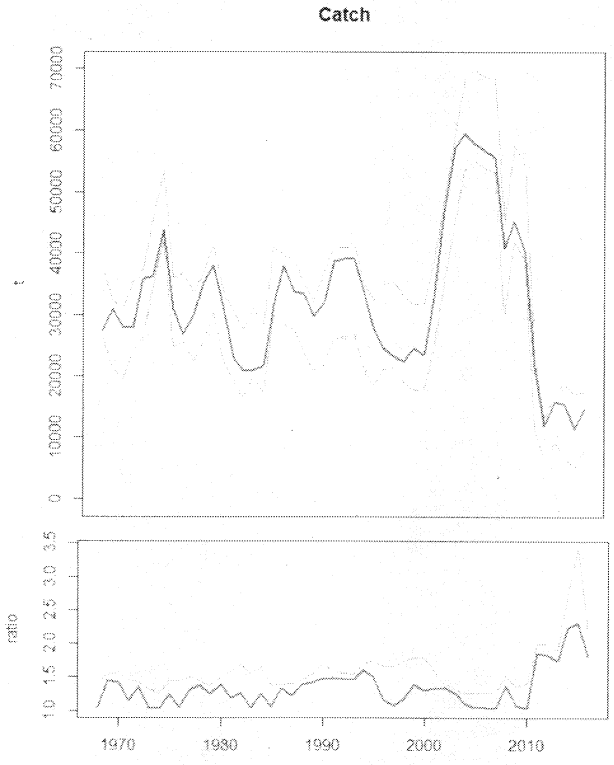


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Résultats version 3 (+US/foreign)

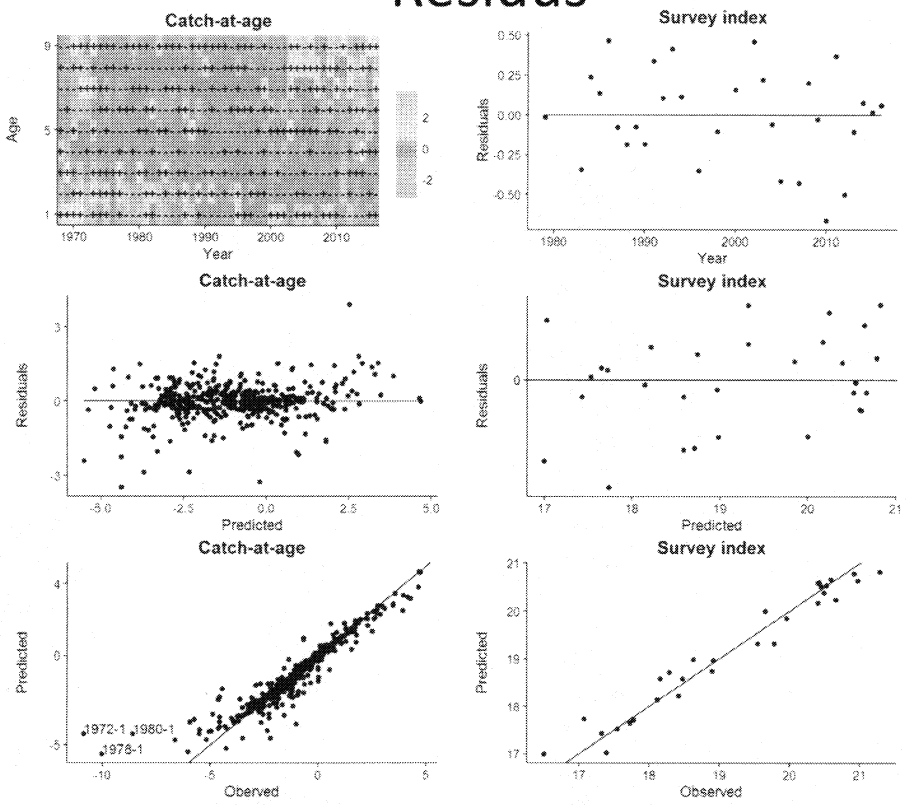


Résultats version 2 (censurée)

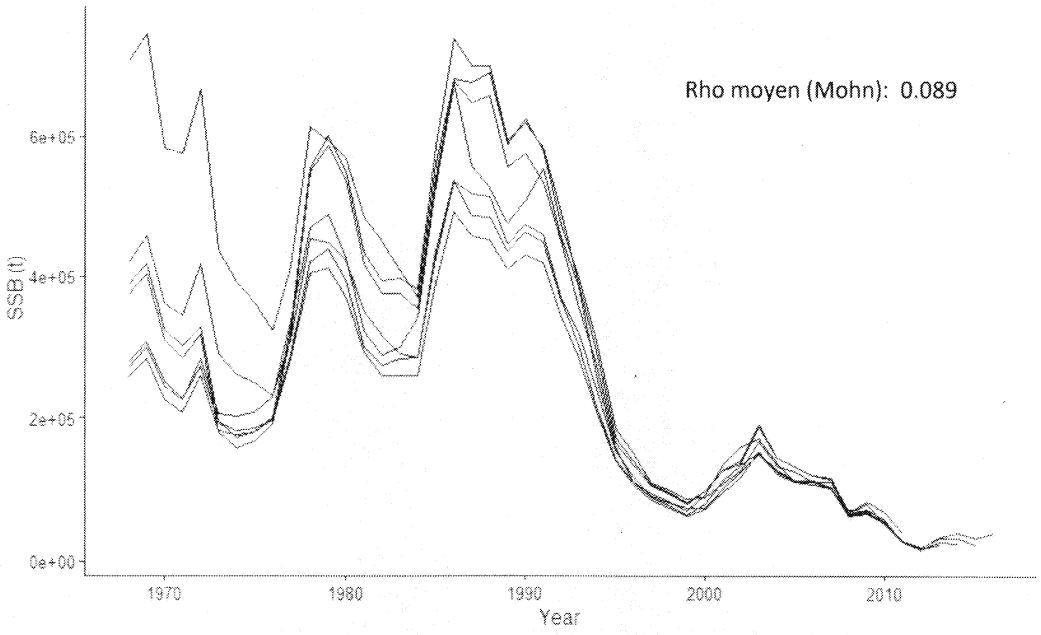


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Résidus



Patrons retrospectifs

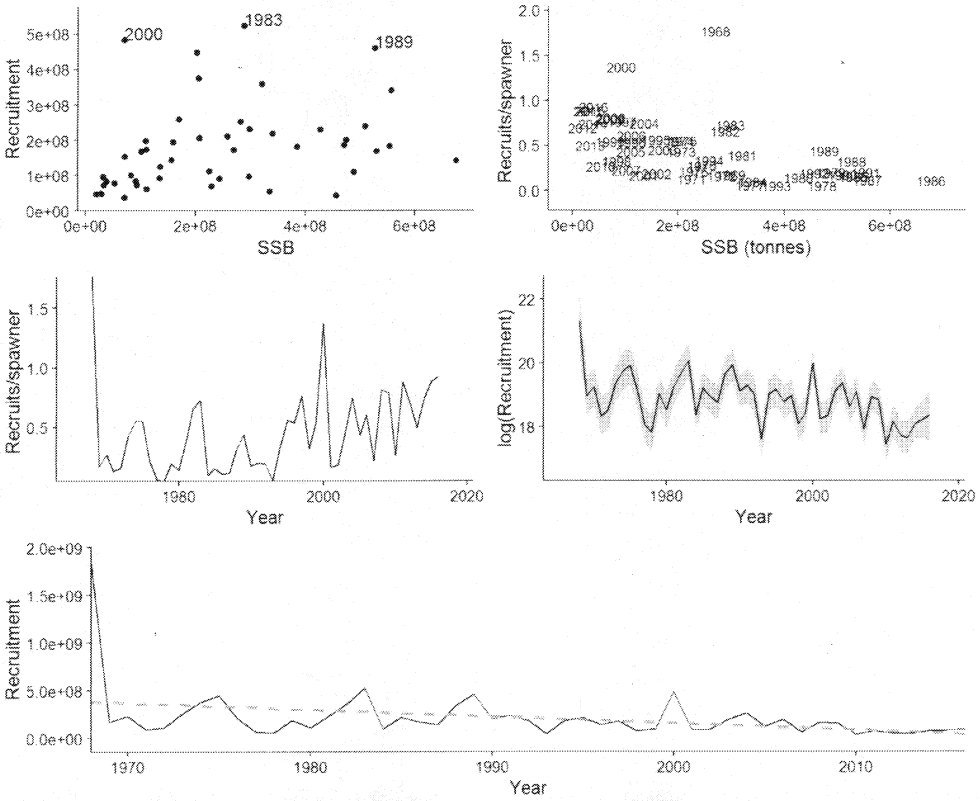


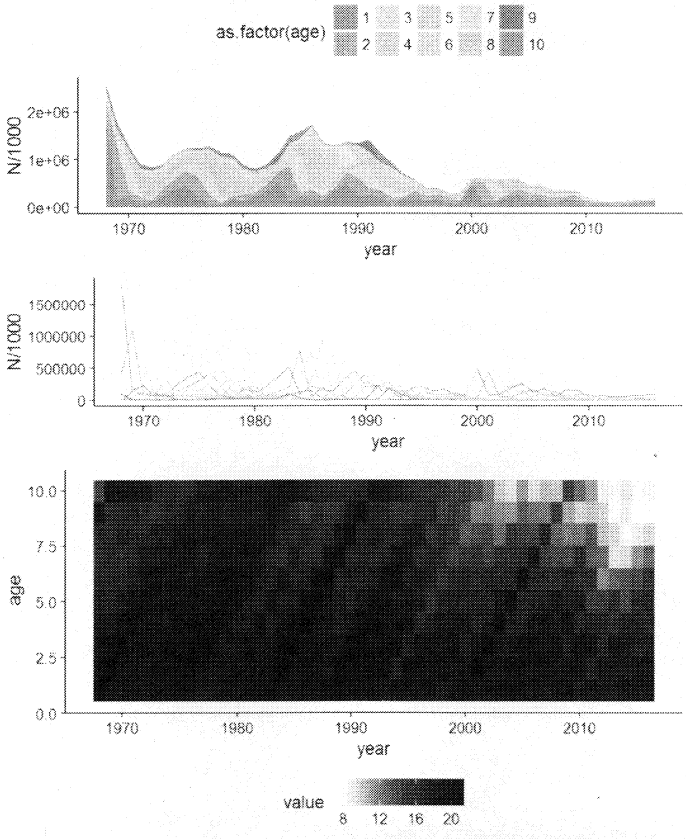
Fisheries and Oceans Canada

Évaluation du maquereau bleu 8 – 9 mars 2017

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Recrutement



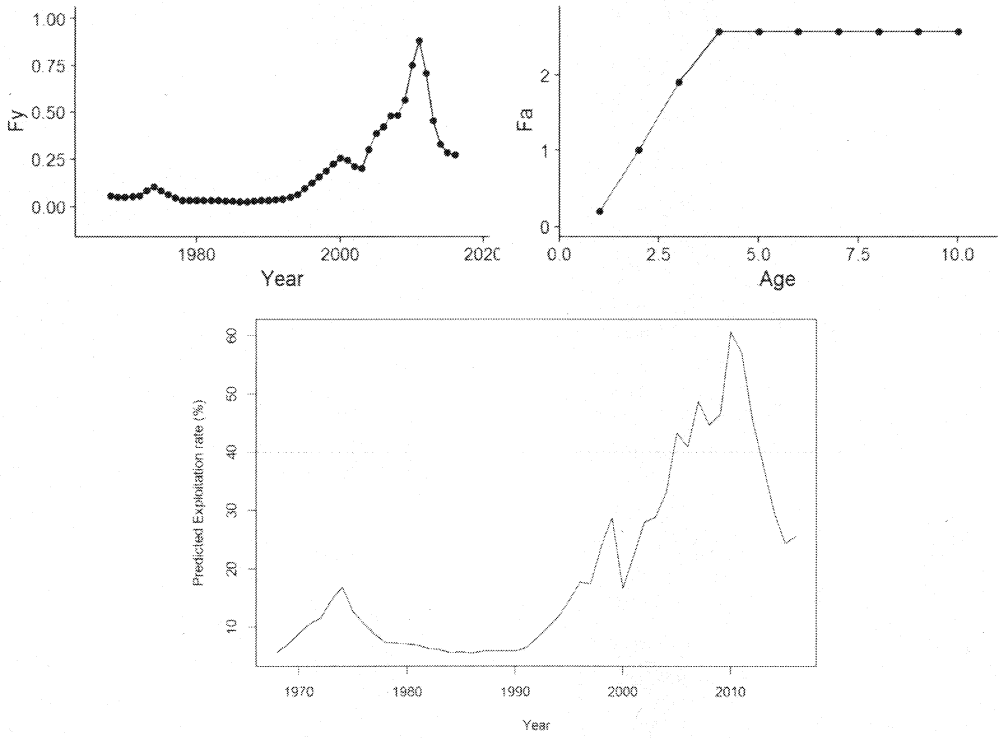


Fisheries and Oceans Canada

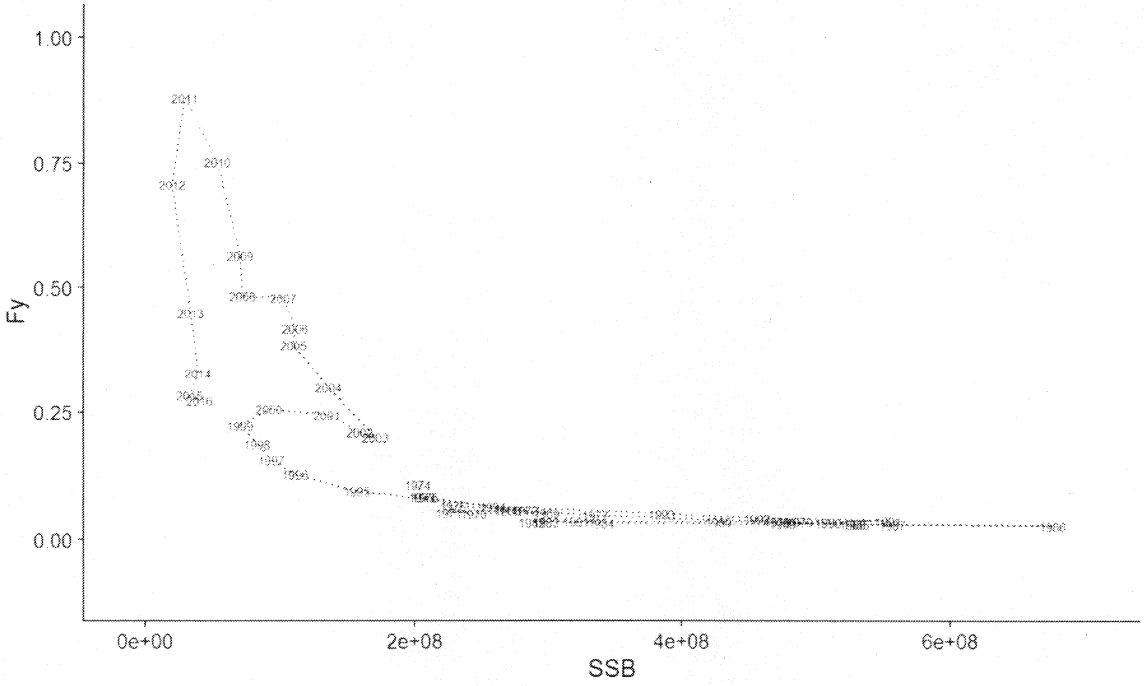
Évaluation du maquereau bleu 8 – 9 mars 2017

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F et taux d'exploitation

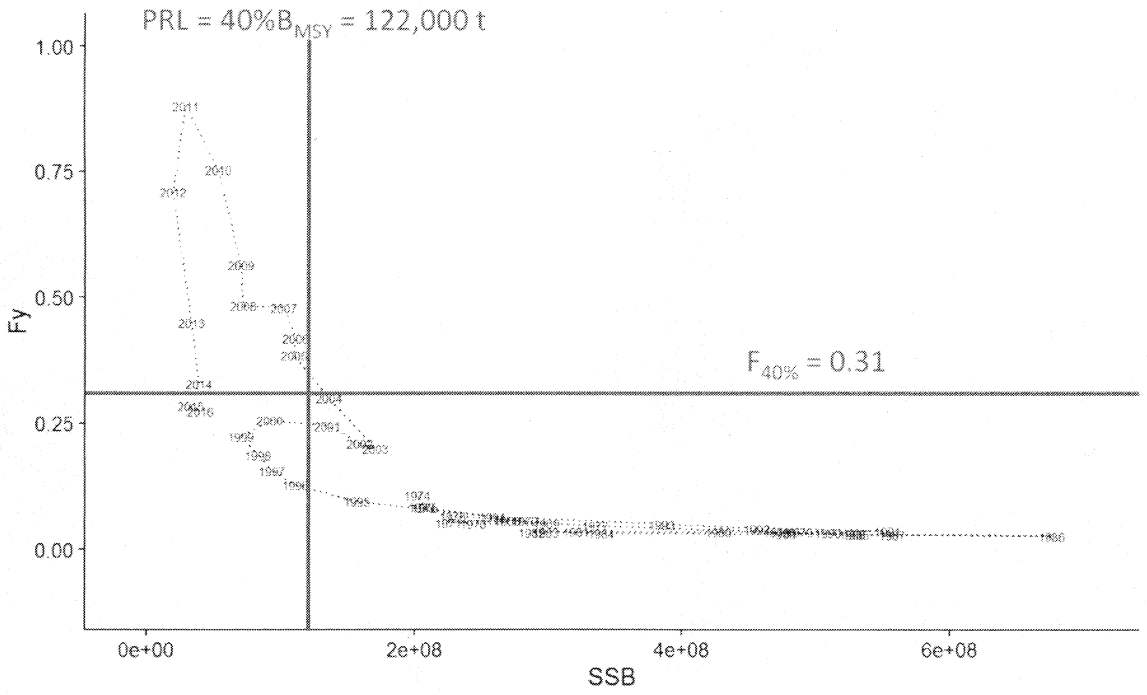


Trajectoire du stock

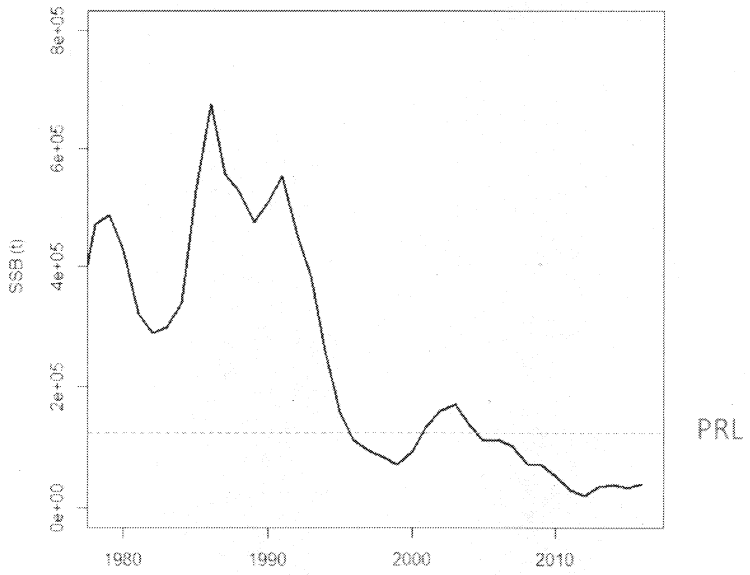


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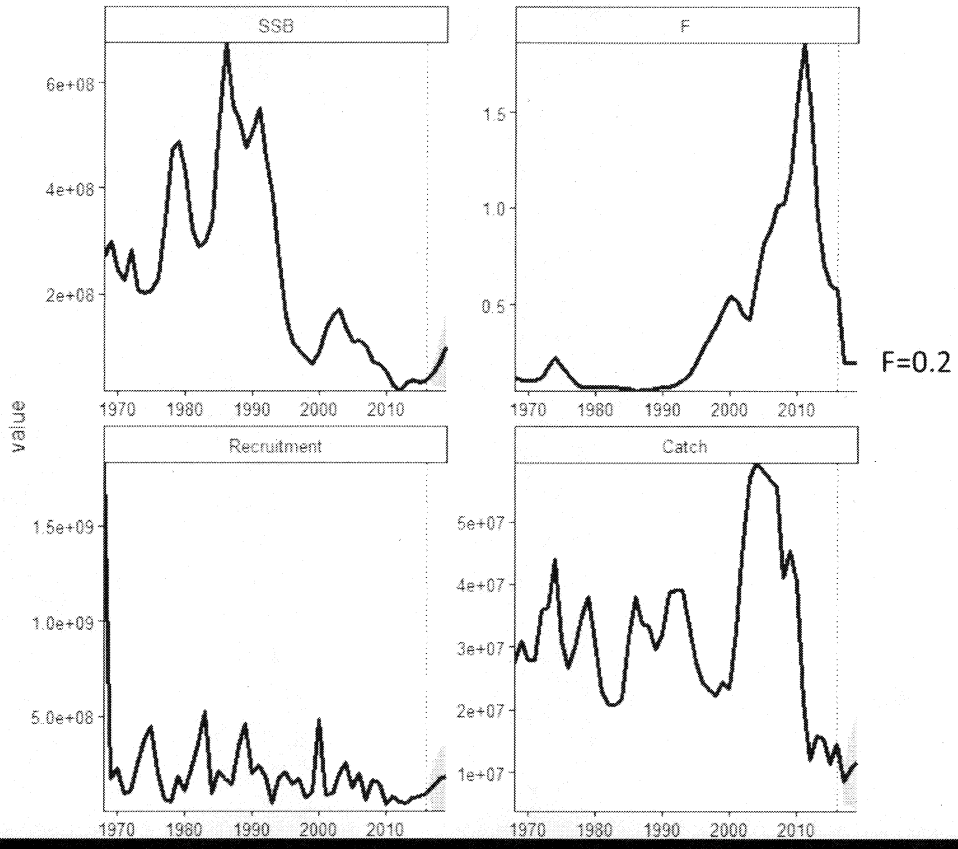
Trajectoire du stock



État du stock



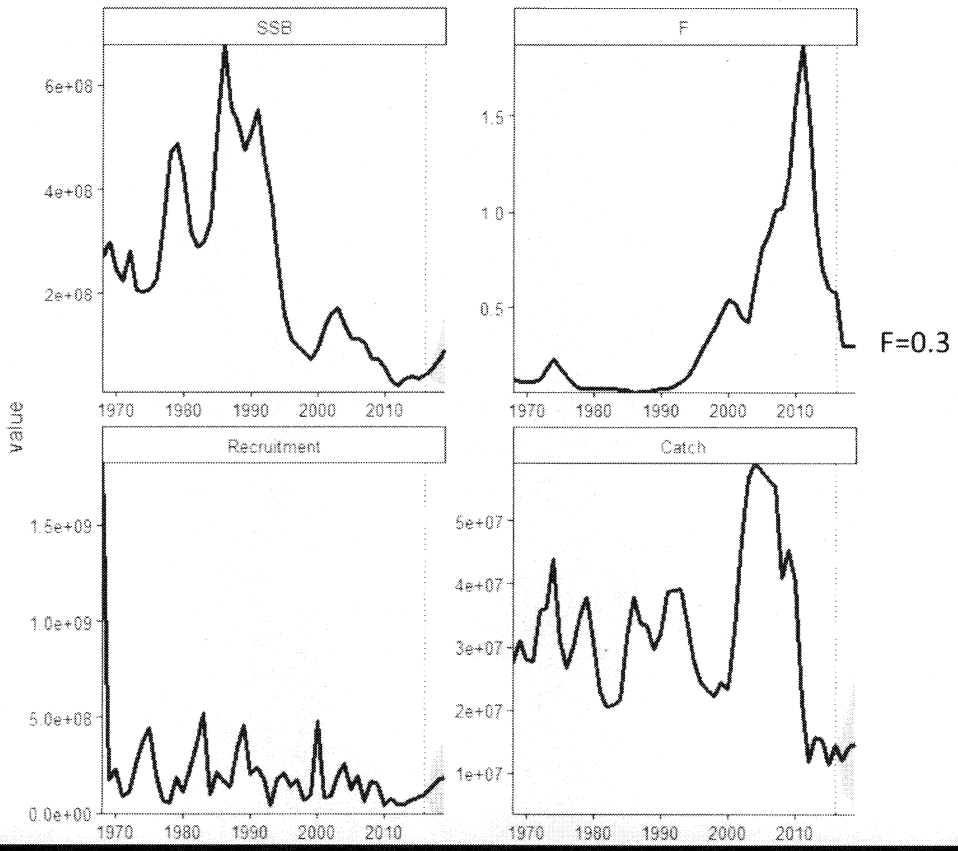
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F=0.2

Fisheries and Oceans Canada

Évaluation du maquereau bleu 8 – 9 mars 2017

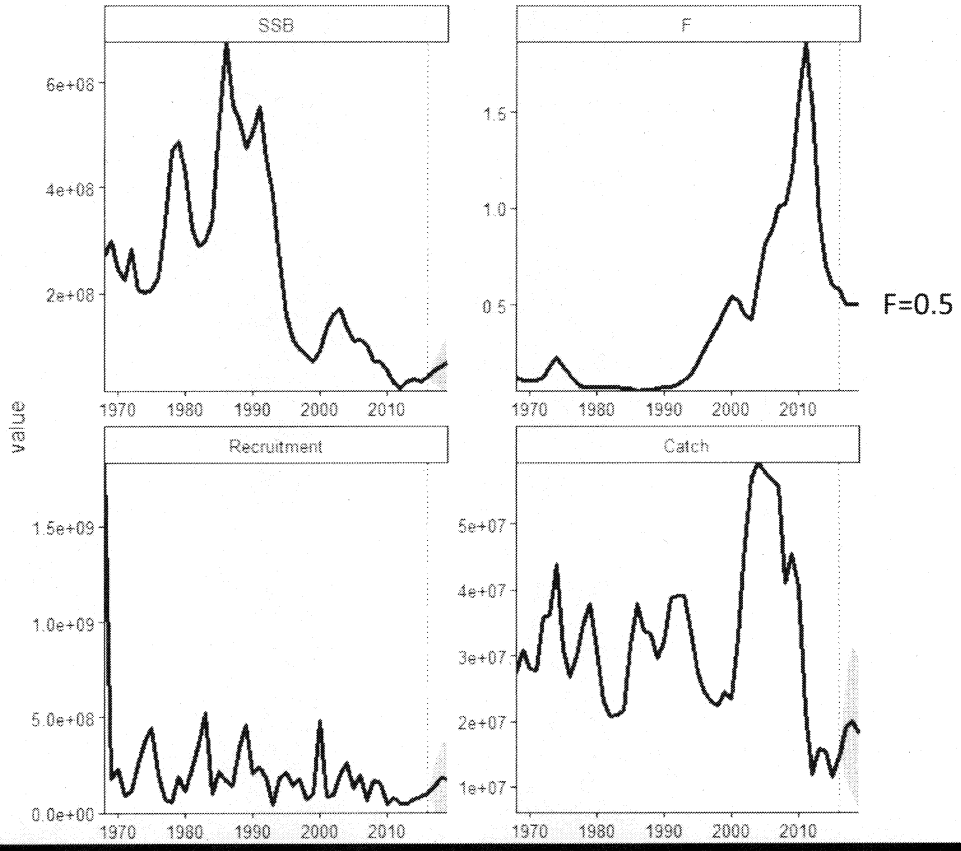


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Fisheries and Oceans Canada

Évaluation du maquereau bleu 8 – 9 mars 2017

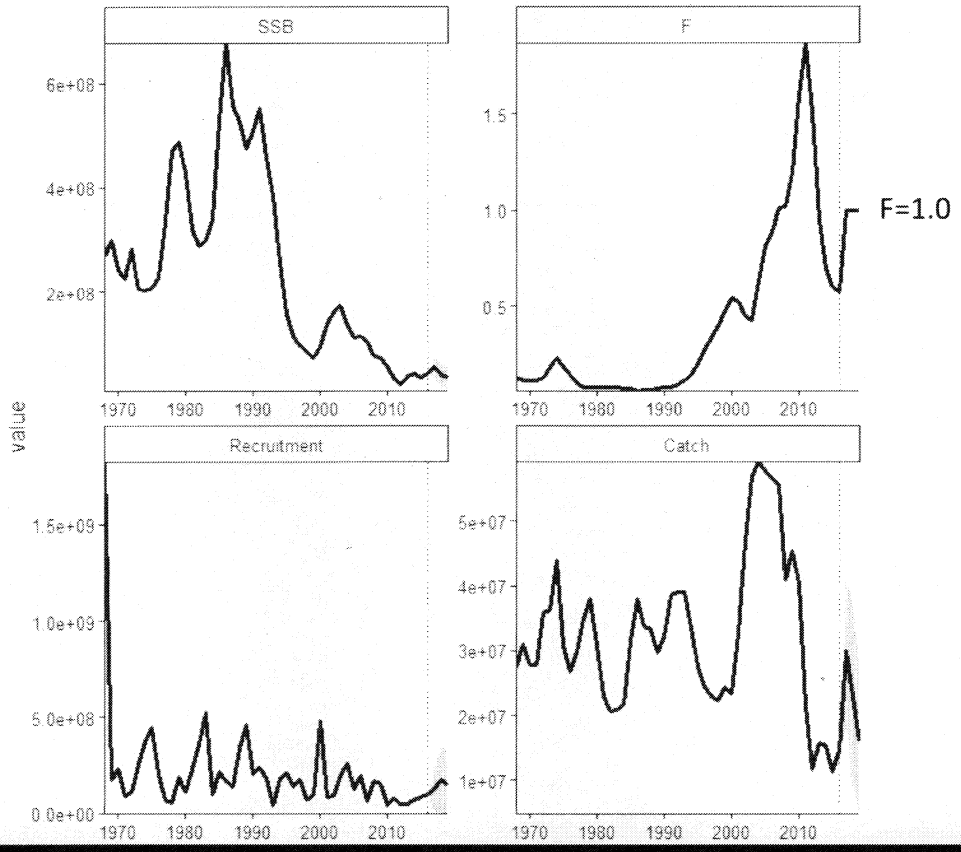
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F=0.5

Fisheries and Oceans Canada

Évaluation du maquereau bleu 8 – 9 mars 2017



F=1.0

Fisheries and Oceans Canada

Évaluation du maquereau bleu 8 – 9 mars 2017

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Détermination des prises et formulation du TAC

- Les prises associées au F choisi sont considérées comme totales (=déclarées + non-déclarées)
- Par exemple, si les prises **totales** recommandées étaient de 12,000 tonnes (F=0.3) , et que le taux de prises non-déclarées est estimé à 1.5, cela implique des débarquements déclarés maximums de 8,000 t.

Années intérimaires

- Prochaine évaluation prévue à l'hiver 2019
- Identification des indicateurs de suivis pour l'état du stock dans les années intérimaires:
  - Débarquements et indice d'abondance des œufs 2017
- Éléments déclencheurs d'une évaluation dans une année intérimaire:
  - Diminution de plus de 30% de l'indice de SSB

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Demande de la gestion des pêches

- L'industrie de la pêche au maquereau nous rapporte qu'elle capture beaucoup de poisson sous la taille légale. Selon la réglementation, un pêcheur lors d'un voyage de pêche ne peut avoir en sa possession une quantité supérieure à 10% de maquereau sous la taille légale. Toutefois, on nous rapporte que des taux de débarquement allant jusqu'à 90% de poissons sous la taille légale. Les maquereaux capturés à l'aide d'hameçons dans un contexte de pêche commerciale font en sorte que la mâchoire des poissons se déchire lorsque les poissons sont embarqués à bord des bateaux. Nous n'avons toutefois aucune données/information sur le taux de survie suite à la remise à l'eau, mais de vue réglementaire, le pêcheur se doit de remettre à l'eau toutes prises sous la taille légale.

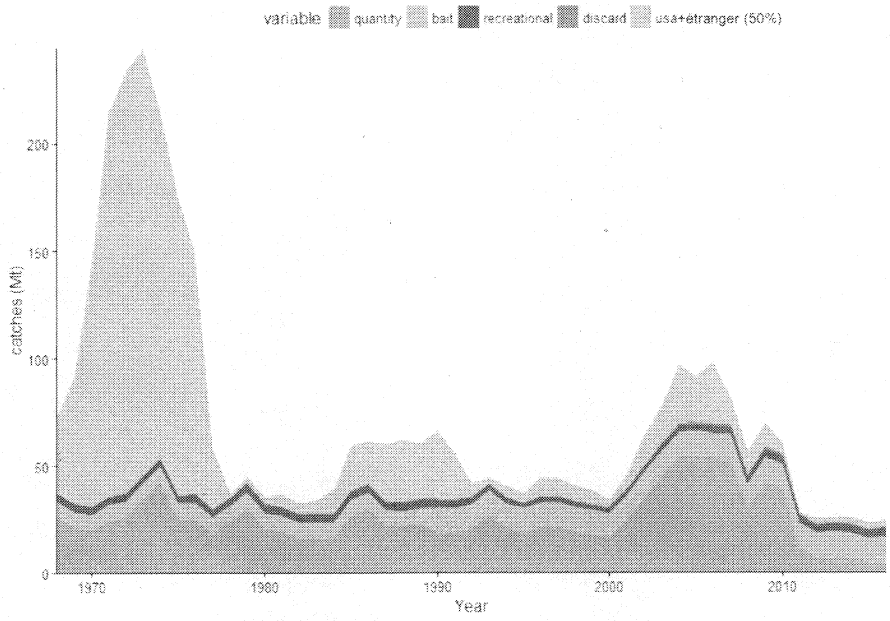
- Ne connaissant pas le potentiel de survie suite à la remise à l'eau, un support des sciences est requis afin d'encadrer une approche visant à développer un TAC pour une pêche sans taille minimale.

Taille légale minimale

- Il est vrai que la taille minimale crée une mortalité par rejet qui peut être importante et est difficile à estimer
- Mais la taille minimale permet d'assurer qu'au moins 50% des poissons ont une occasion de se reproduire avant d'être pris
- Un TAC sans taille légale serait nécessairement moins élevé, prélèverait davantage de poissons en nombre, et entrainerait une taille moyenne des poissons pêchés plus basse

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Informed upper bound

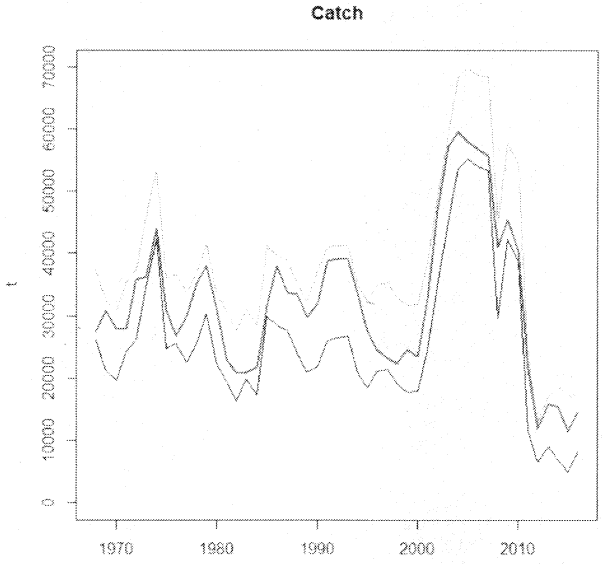


3 versions of the model

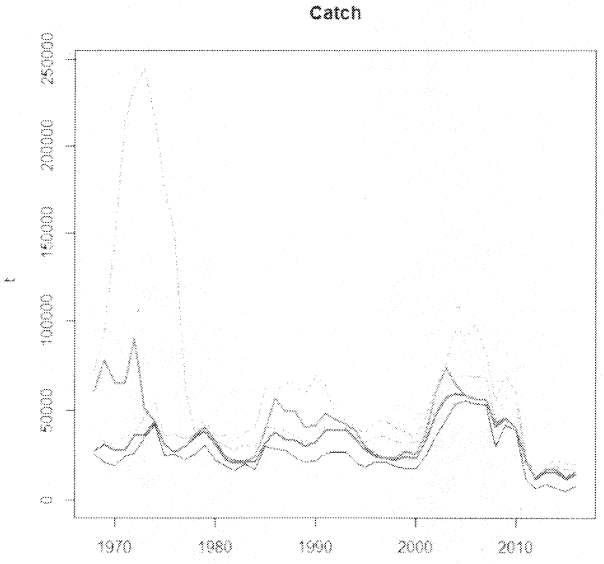
- Version 1: uncensored (catches= declared)
- Version 2: censored informed (Canada)
- Version 3: censured with Canada + 50% US and foreign catches

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Results versions 1 et 2

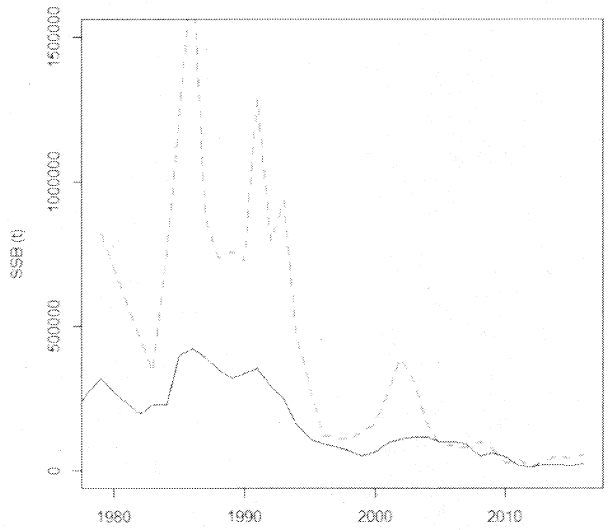


Results version 3 (+US/foreign)

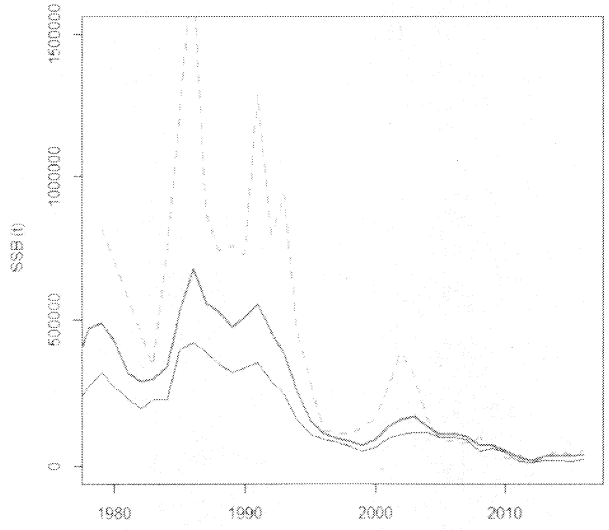


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Results version 1 (uncensored)

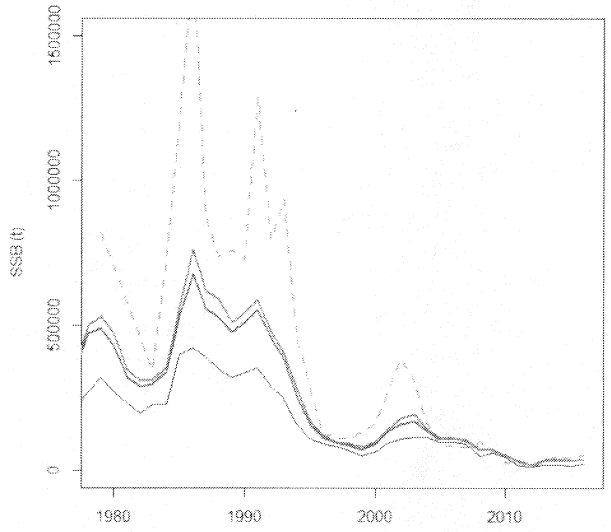


Results version 2 (censored)

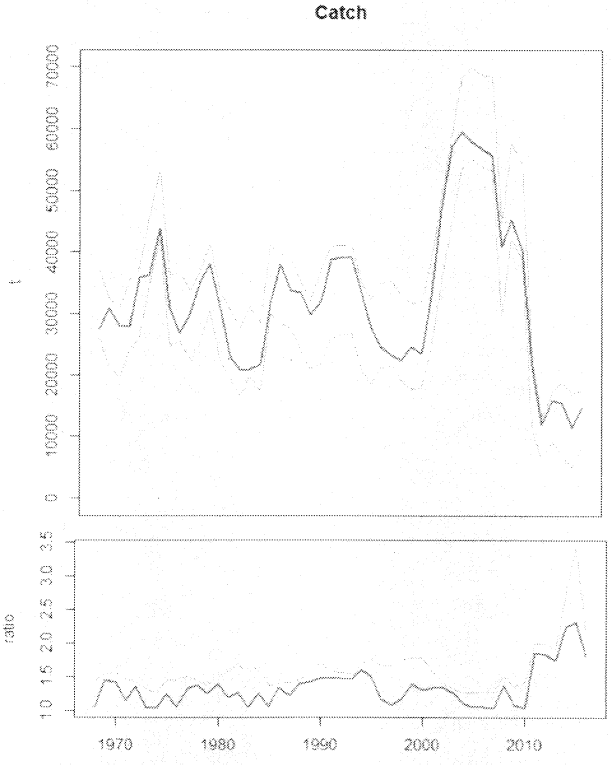


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Results version 3 (+US/foreign)

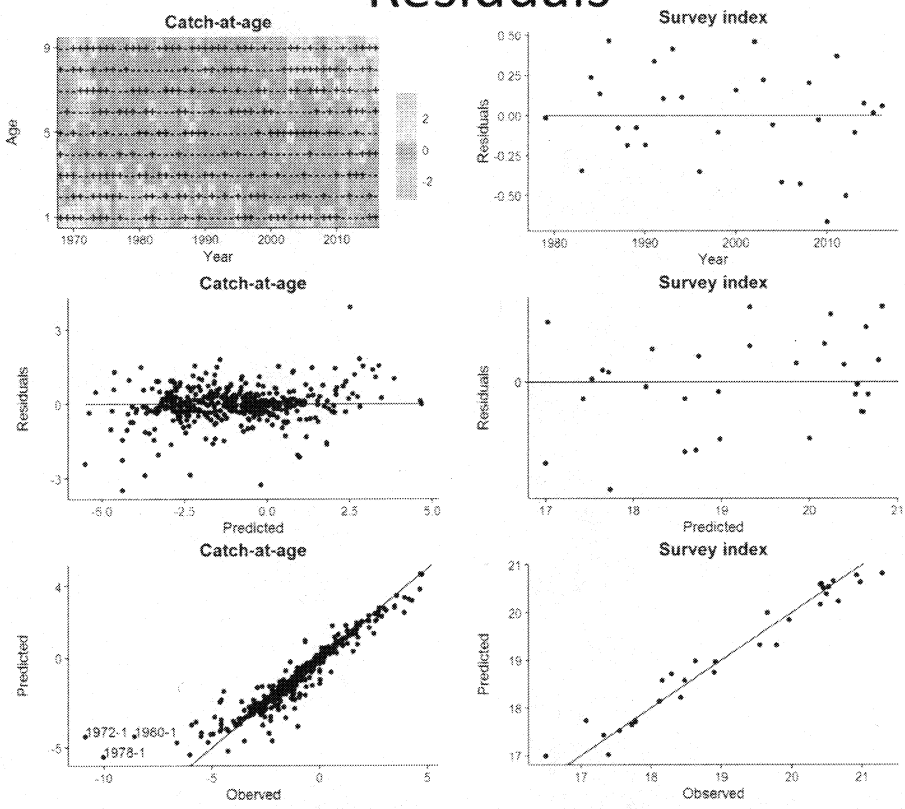


Results version 2 (censored)

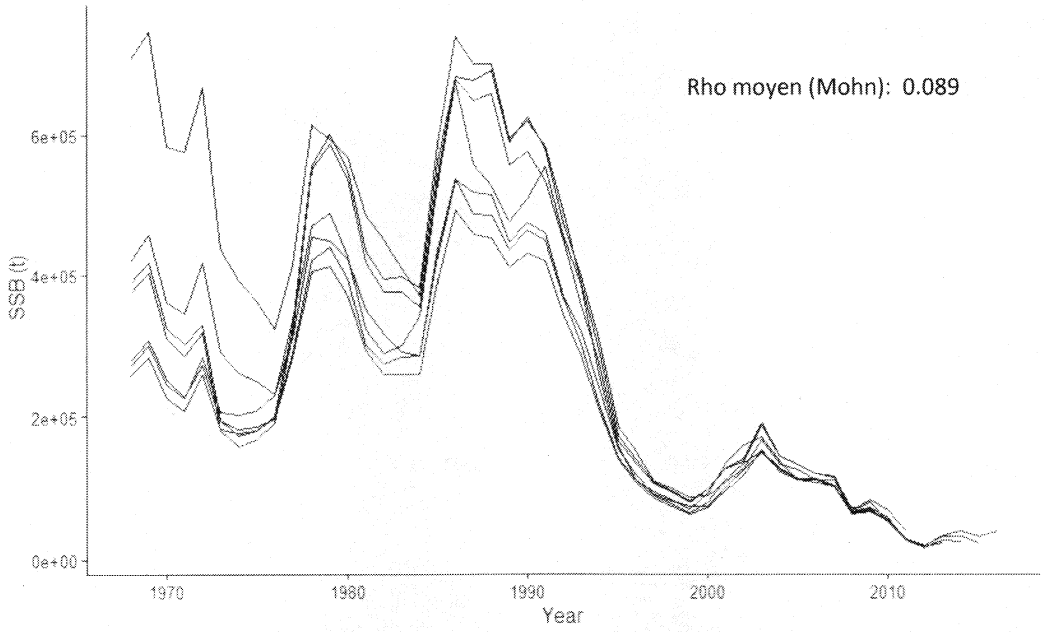


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Residuals

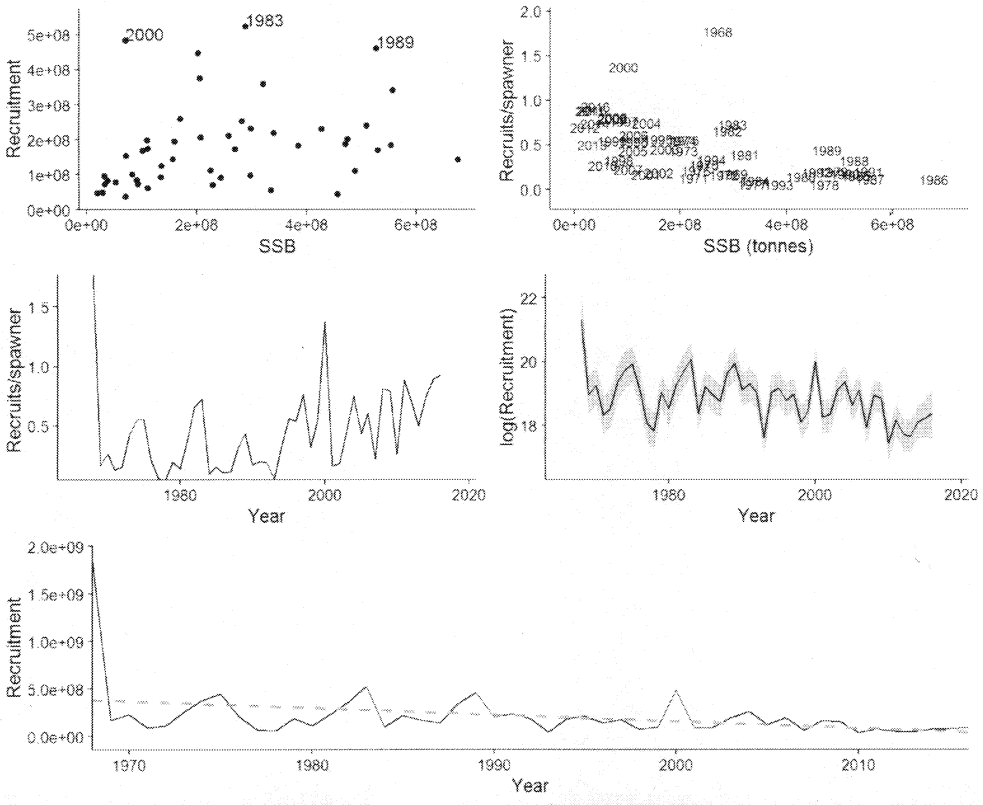


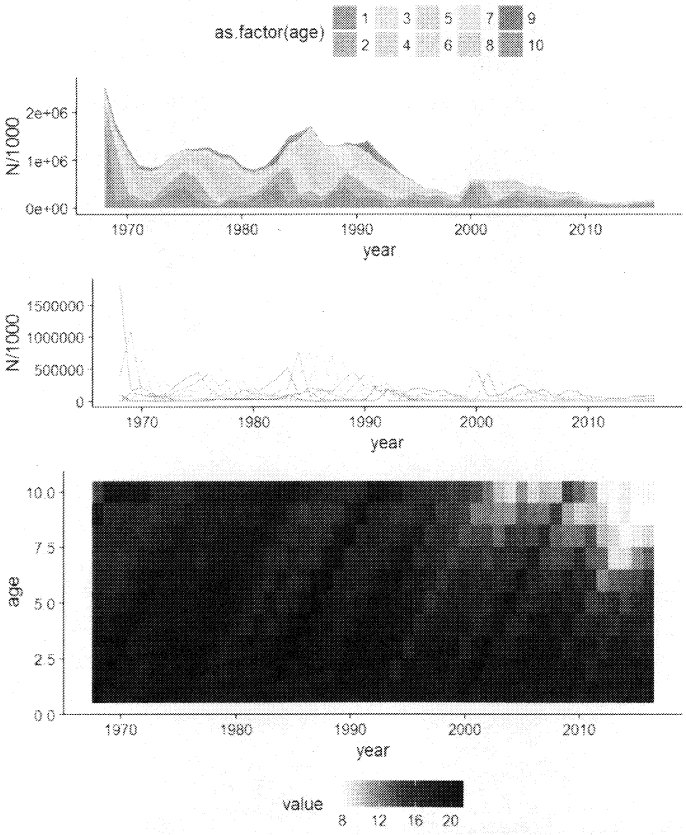
Retrospective patterns



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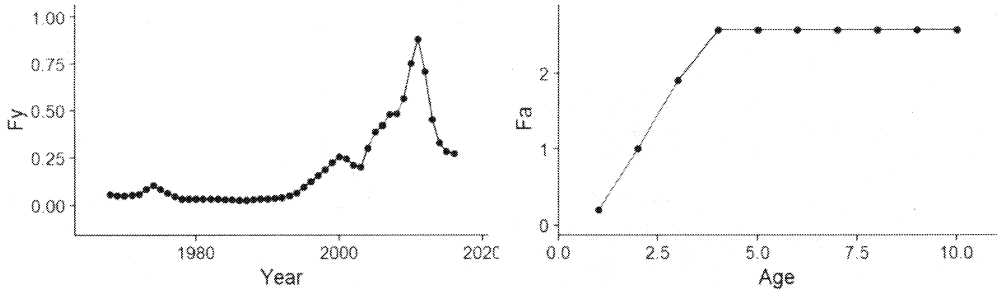
Recruitment

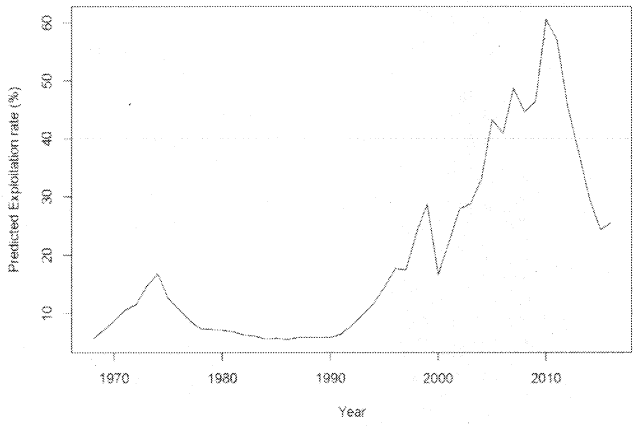




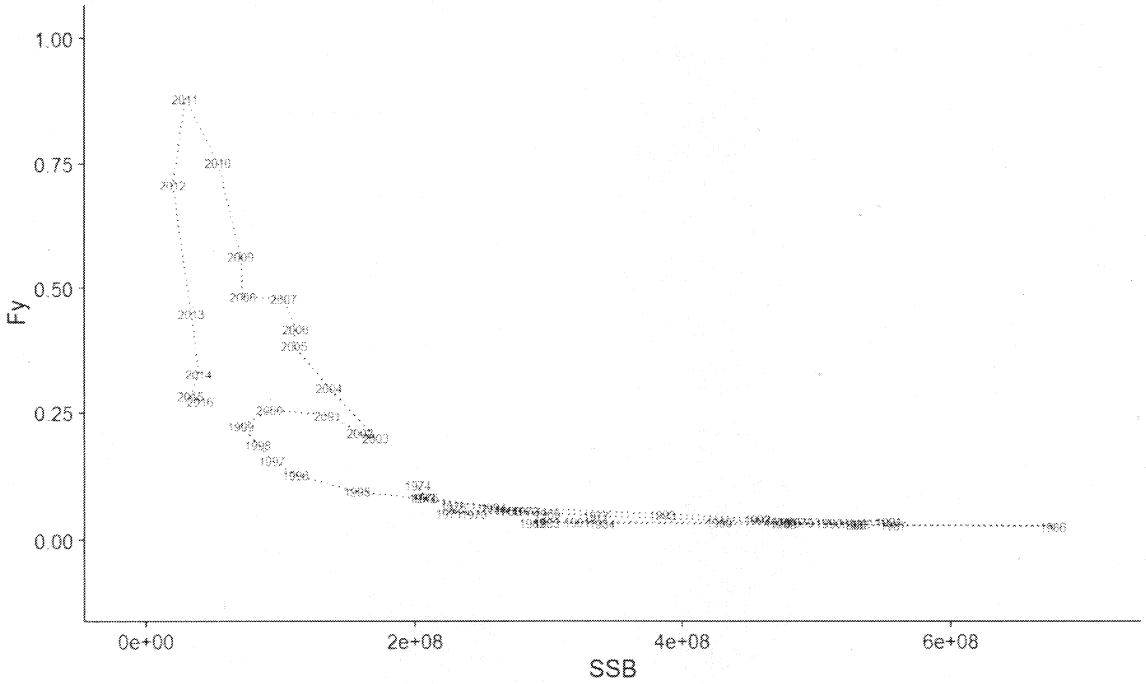
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F and exploitation rate



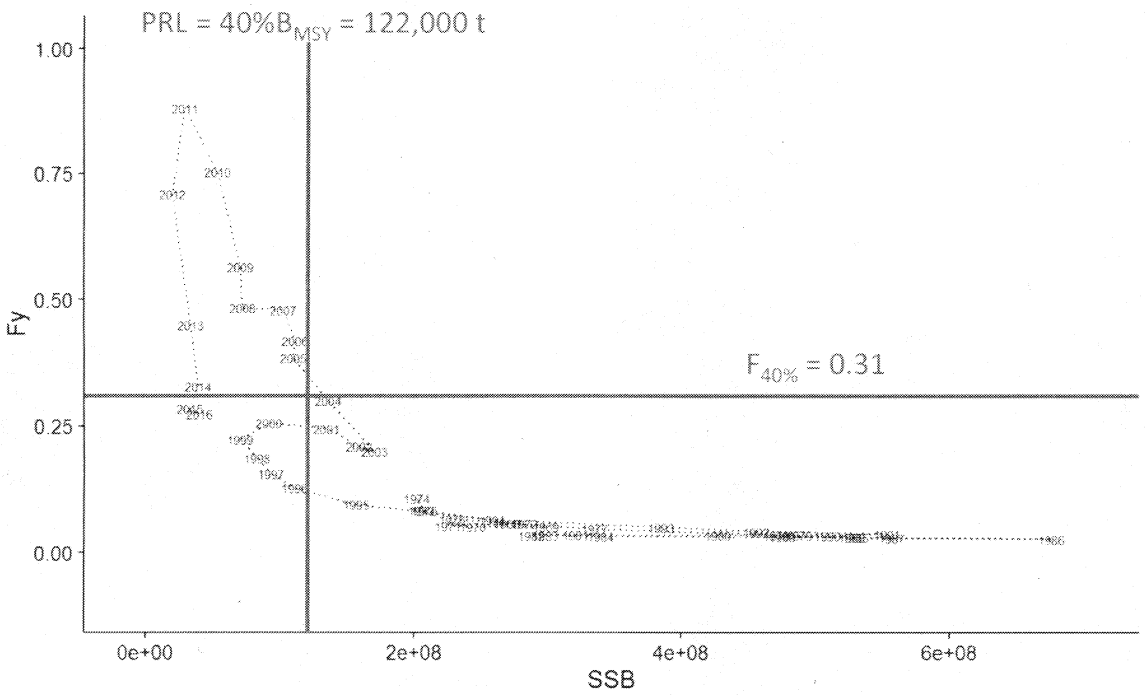


Stock trajectory

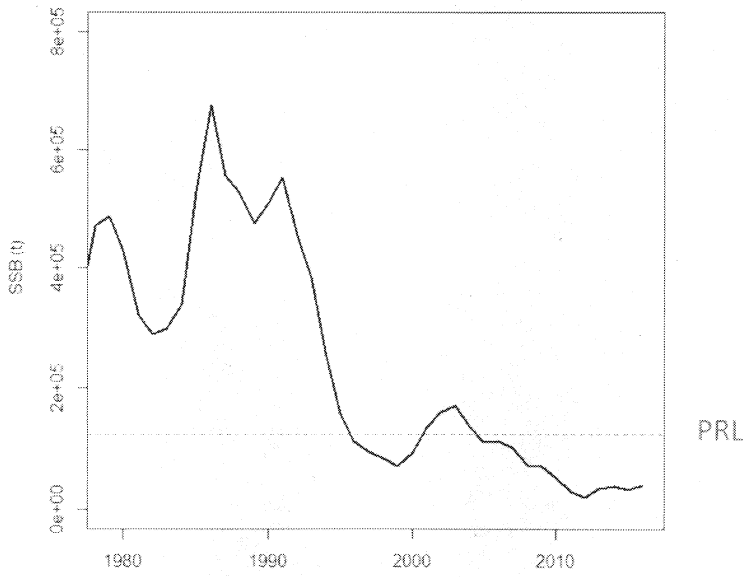


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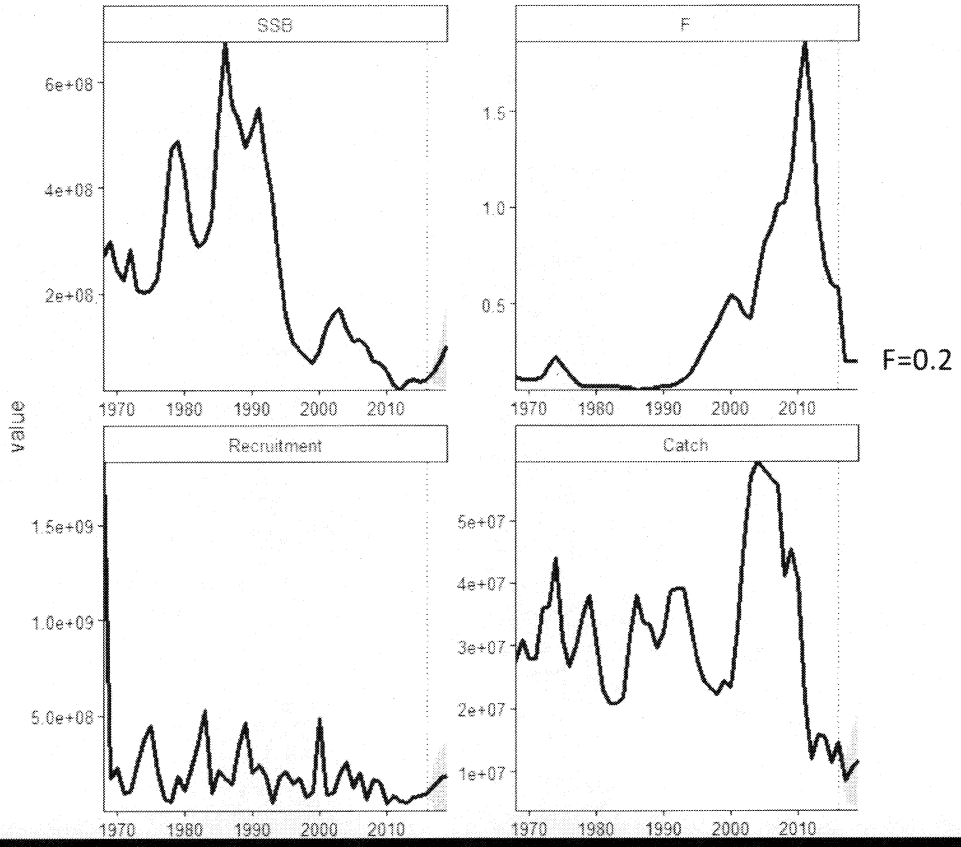
Stock trajectory



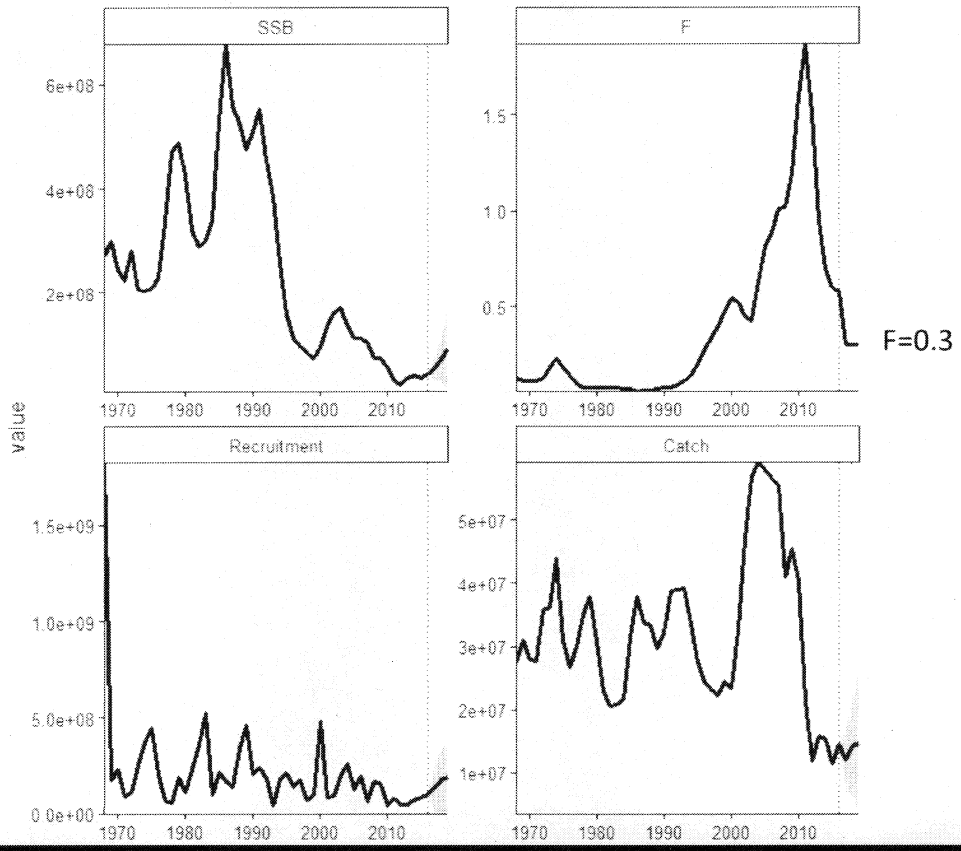
Stock status



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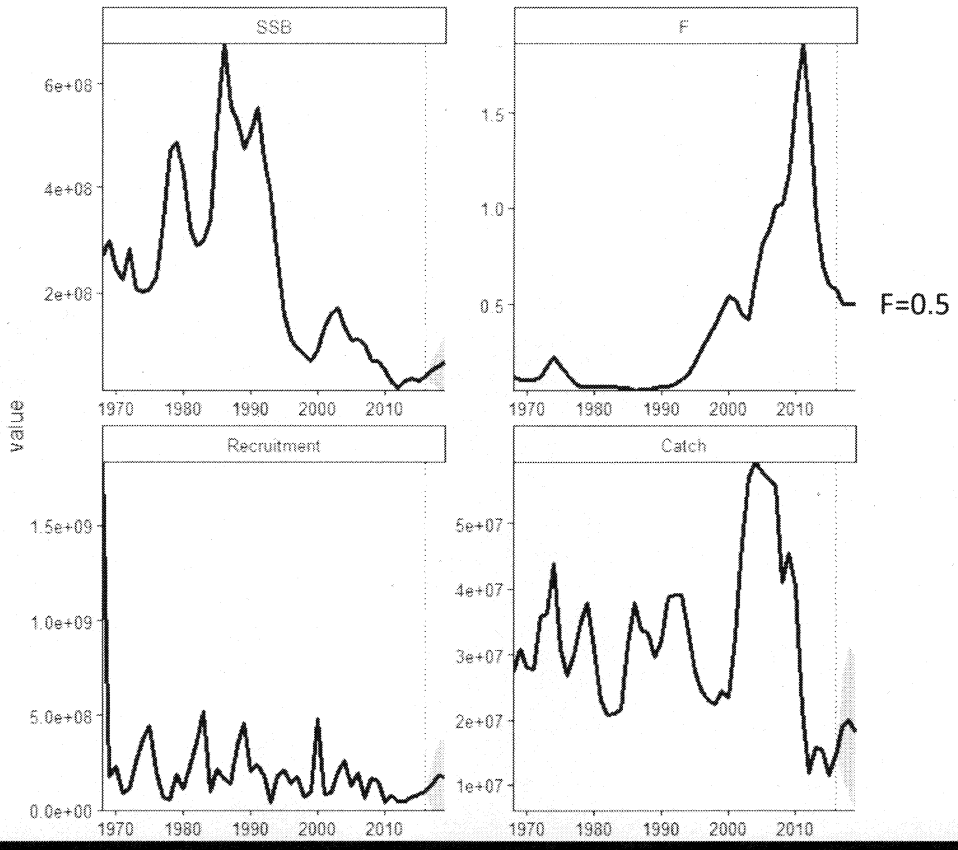


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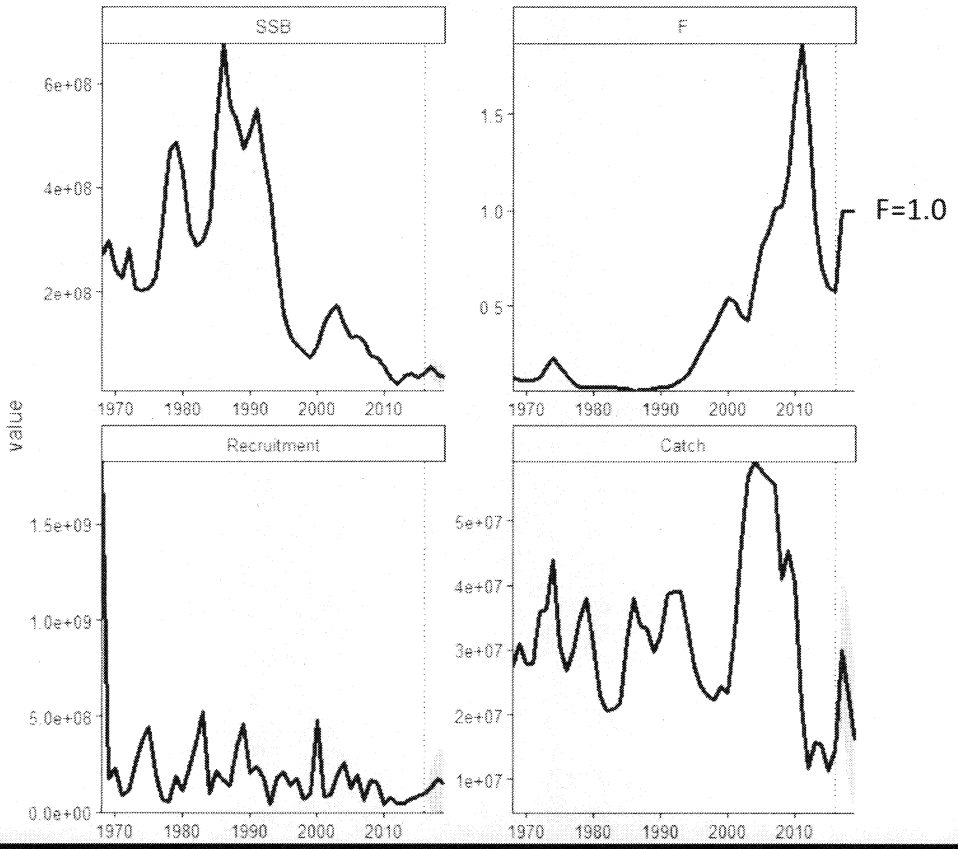


F=0.3

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F=0.5



F=1.0

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Catch and TAC formulation

- Catches corresponding to selected F should be considered total catches (=declared + unreported)
- For example, if total recommended catches were 12,000 t (F=0.3) , and the rate of unreported catches was estimated at 1.5, this would imply maximum declared landings of de 8,000 t.

Interim years

- Next assessment in winter 2019
- Identification of monitoring indicators of stock status in interim years:
  - Landings and egg abundance index in 2017
- Triggers for a new stock assessment in interim year:
  - Decrease of more than 30% of the SSB index

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Request from management

- Industry reports lots of catches of mackerel under legal size. Rules say that the total of undersize mackerel in a single trip cannot exceed 10%. However, there are reports of catches of up to 90% of undersize fish
- Mackerel caught with hooks have their jaw ripped off. There is no information on survival rates.
- Support from science is requested to develop a TAC for a fishery with no minimum size

Minimum legal size

- It is true that minimual size requirements can create discard mortality that could be significant and is difficult to estimate.
- But minimum legal size ensures that at least 50% of fish have an opportunity to spawn before being caught
- A TAC with no minimum size would necessarily be lower, would take more fish in numbers, and would result in lower average size of fish landed

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s.19(1)

RÉSUMÉ DES PRODUITS DE RÉUNION

Information sur la réunion

Pour un traitement plus rapide, veuillez fournir l'information tel qu'indiqué (mot par mot) sur le calendrier des avis scientifiques disponible sur le site web du SCCS. Si l'information sur le calendrier est inexacte, prière d'informer votre coordonnateur du CAS/SCCS.

Titre de la réunion : Évaluation du maquereau bleu des sous-régions 3-4

Président(s) : [redacted]

Date du début de la réunion : 2017-03-08

La réunion s'est tenue durant les mêmes dates représentées sur le calendrier d'avis scientifique : oui

Si non, veuillez préciser :

Enjeux

Une réaction est-elle prévue par les intervenants ou les médias?

Problème/réaction prévue : non

Si oui, svp élaborer et fournir l'information sur le statut de l'infocapsule, s'il y a lieu et communiquer avec votre conseiller en communications :

Commentaires du président (facultatif) :

Publications prévues

Énumérer chaque publication qu'on prévoit publier suite à la réunion. S'il n'y a pas assez d'espace sur ce formulaire, veuillez les inclure sur une feuille distincte.

Série de publication	Titre provisoire	Pers. ressources CR : président; AS ou RS : pers.-ressource; DR : auteur(s)	Date d'échéance AS et RS : 8 semaines; DR et CR : 4 mois	Éval. zonales ou nationales	
				Région pilote	Autre(s) région(s)
Compte rendu	Compte rendu de l'examen par des pairs régional portant sur l'évaluation du maquereau bleu des sous-régions 3 et 4; du 8 au 9 mars 2017	[redacted]	9 juillet 2017	[sélectionner]	
Avis scientifique	Évaluation du stock de maquereau bleu du nord-ouest de l'Atlantique (sous-régions 3 et 4) en 2016	Thomas Doniol-Valcroze	4 mai 2017	[sélectionner]	
Document de recherche	Évaluation analytique du maquereau bleu (Scomber scombrus L.) des sous-régions 3-4 de l'OPANO: utilisation d'un modèle censuré pour prendre en compte les captures non-déclarées.	Doniol-Valcroze, T., Van Beveren, E., Duplisea, D. et Castonguay, M.)	9 juillet 2017	[sélectionner]	

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Série de publication	Titre provisoire	Pers. ressources CR : président; AS ou RS : pers.-ressource; DR : auteur(s)	Date d'échéance AS et RS : 8 semaines; DR et CR : 4 mois	Éval. zonales ou nationales	
				Région pilote	Autre(s) région(s)
Document de recherche	Le maquereau bleu (Scomber scombrus L.) des sous-régions 3-4 de l'OPANO en 2016	Doniol-Valcroze, T., Légaré, B., Girard, L., Van Beveren, E. et Castonguay, M	9 juillet 2017	[sélectionner]	
SVP Sélectionner				[sélectionner]	
SVP Sélectionner				[sélectionner]	
SVP Sélectionner				[sélectionner]	
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SVP Sélectionner				[sélectionner]	
SVP Sélectionner				[sélectionner]	
SVP Sélectionner				[sélectionner]	
SVP Sélectionner				[sélectionner]	

Document available at:http://publications.gc.ca/collections/collection_2017/mpo-dfo/Fs70-4-2017-033-eng.pdf

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Fisheries and Oceans Canada | Pêches et Océans Canada
Ecosystems and Oceans Science | Sciences des écosystèmes et des océans

Canadian Science Advisory Secretariat (CSAS)

Proceedings Series 2017/nnn

Quebec Region

Proceedings of the Regional Peer Review Meeting on the Assessment of the Atlantic Mackerel in Subareas 3 and 4

March 8 and 9, 2017
Mont-Joli, Quebec

Chair: Dominique Gascon
Rapporteur: Sonia Dubé

Maurice Lamontagne Institute
Fisheries and Oceans Canada
850 Route de la Mer, P.O. Box 1000
Mont-Joli, Quebec G5H 3Z4

July 2017

Canada

Pages 908 to / à 920

are public-denied pursuant to section

est public-refusé en vertu de l'article

68(a)

of the Access to Information Act

de la Loi sur l'accès à l'information

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Docherty, Verna

From: Stone, Heath H
Sent: 2017–March-08 4:36 PM
To: Docherty, Verna
Subject: FW: Port Sampling

Hi Verna,

Forgot to include you in my response to Christa.
Heath

From: Stone, Heath H
Sent: March 8, 2017 4:19 PM
To: Waters, Christa
Cc: Comeau, Peter; Hurtubise, Sylvain
Subject: RE: Port Sampling

Hi Christa,

I am the person in charge of the Port Sampling Program and yes we have been getting requests in the past from Quebec Science for mackerel port samples. In answer to your question, we do not have monitoring protocols in place for mackerel as it is not one of the stocks which is assessed by Maritimes Region Science. We have collected LF samples of mackerel opportunistically for Quebec Region Science staff, and these have been collected from recreational fishermen on wharves, but it involves being in the right place at the right time and it is not a very efficient use of our port sampler's time as currently, the main priority for the port sampling program is to cover off the active groundfish fisheries in 5Zjm and 4X (haddock, cod, Pollock, white hake, cusk, halibut, silver hake etc) which involves a significant amount of work.

Currently we have only one individual based out of Yarmouth who does all of the port sampling for the fixed and mobile gear groundfish fisheries operating out of SWNS, plus some sampling of the lobster fishery in LFA's 33 and 34. The area covered ranges from Digby to Shelburne and we haven't had staff available for sampling fisheries east of Shelburne for several years now (so that would include St. Margaret's Bay, 4Xmn, 4W and 4V).

It sounds like the mackerel assessment team at Mont Joli is expecting something from us that we cannot provide because our area of operation doesn't really overlap with the main area of the mackerel fishery, and because we have only one sampler at present. Perhaps they (Quebec) need to look into hiring a seasonal port sampler to specifically conduct sampling of the mackerel traps in St. Margaret's Bay or 4V?

I will be at sea from March 14-28, so if you want to give me a call I will be in the office for the rest of this week until Tuesday morning.

Thanks,
Heath

From: Waters, Christa
Sent: March 8, 2017 3:14 PM
To: Stone, Heath H

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Cc: Hurtubise, Sylvain; Doniol-Valcroze, Thomas; Docherty, Verna
Subject: Port Sampling

Hello Heath,

Are you in charge of port sampling now? I would like to follow-up on port sampling issue that came up at the RAP process for Mackerel in Mont Joli.

If you are not the right person, please let me know who to contact.

Although I am not the official requestor of port samples, I just want to be sure that you are getting requests for mackerel samples. In addition, are there any monitoring protocols in place to ensure that samples are being taken? Science has a big gap from Maritimes with regard to samples. There is a gap for early fishery samples in the Maritimes. The trap net fishery will be starting up soon.

Thanks for looking into this for me, or sending me in the right direction of who to ask.

Thanks,

Christa

Christa Waters
Regional Senior Fisheries Management Advisor
Resource Management | Gestion des Pêches
Maritimes Region | Région des Maritimes
Fisheries and Oceans Canada | Pêches et Océans Canada
P.O. Box 1006 | C.P. 1006
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Telephone | Téléphone 902-293-6541
Government of Canada | Gouvernement du Canada

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Waters, Christa

From: Waters, Christa
Sent: March-08-17 3:05 PM
To: XMAR, Commercial Data; Penney, Marcia Y; Grandy, Robert; MacDonald, Carl; Hussey-Bondt, Laura; Hurtubise, Sylvain
Cc: Doniol-Valcroze, Thomas
Subject: RE: Mackerel landings from Maritimes

Importance: High

Hello,
Thanks for your quick attention to this matter. I will leave it to Sylvain to determine if this is what he needs, or to re-submit his request to ensure he gets exactly what is needed.
Christa

Christa Waters
Regional Senior Fisheries Management Advisor
Resource Management | Gestion des Pêches
Maritimes Region | Région des Maritimes
Telephone | Téléphone 902-293-6541

From: XMARComData / XMARDonnéesCommerciales (DFO/MPO)
Sent: March 8, 2017 2:59 PM
To: Penney, Marcia Y; Grandy, Robert; MacDonald, Carl; Waters, Christa; Hussey-Bondt, Laura; Hurtubise, Sylvain
Subject: RE: Mackerel landings from Maritimes

Hello all,

I have submitted a number of data requests on Mackerel last year, and only one this year. It is attached. I am not able to find anything directly from Sylvain.

If you require something else, please let me know and we should be able to work something up fairly quickly, as long as we are using standard variables.

Thank you,

Colin O'Neil

Statistical Analyst, Policy & Economics
Fisheries & Oceans Canada | Government of Canada
Colin.ONeil@dfo-mpo.gc.ca | Telephone: 902-440-0392 | Facsimile: 902-440-0392

Analyste en statistique, Politiques et services économiques
Pêches et Océans Canada | Gouvernement du Canada
Colin.ONeil@dfo-mpo.gc.ca | Téléphone: 902-440-0392 | Télécopieur: 902-440-0392

If you have received this communication by mistake, please notify the sender immediately and delete the communication without printing, copying or forwarding it. Thank you.

Si vous avez reçu cette communication par erreur, veuillez en aviser l'expéditeur immédiatement et la supprimer sans l'imprimer, la copier, ou la faire suivre. Merci.

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s.21(1)(b)

From: Penney, Marcia Y
Sent: 2017–March-08 12:43 PM
To: Grandy, Robert; O'Neil, Colin
Subject: FW: Mackerel landings from Maritimes

Anything you can offer wrt the below?

Thanks.
M

From: Waters, Christa
Sent: March-08-17 11:42 AM
To: Penney, Marcia Y; MacDonald, Carl
Cc: Hurtubise, Sylvain
Subject: Mackerel landings from Maritimes

Hello Marci,

I am at the mackerel stock assessment in Mont Joli Quebec. The landings from the Maritimes for 2016 were requested and not received for the assessment.

I have cc's Sylvain as he was the one who requested the data.

How long before this can be available?

Thanks,

Christa

Christa Waters
Regional Senior Fisheries Management Advisor
Resource Management | Gestion des Pêches
Maritimes Region | Région des Maritimes
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s.21(1)(b)

Docherty, Verna

From: Waters, Christa
Sent: 2017–March-08 11:56 AM
To: Docherty, Verna
Subject: RE: Mackerel landings from Maritimes

They should have followed up for sure.
The request was from Syl to Marci.
Christa

Christa Waters
Regional Senior Fisheries Management Advisor
Resource Management | Gestion des Pêches
Maritimes Region | Région des Maritimes
Telephone | Téléphone 902-293-6541

From: Docherty, Verna
Sent: March 8, 2017 11:53 AM
To: Waters, Christa
Subject: RE: Mackerel landings from Maritimes

Hi Christa,
I am acting. To whom did Sylvain make the request? To CDD or to someone in the Science group? Also, when was the request made and did he say whether there was no follow-up at all? Perhaps you can discuss with him outside the meeting.
[redacted] Other than apologies and a commitment from someone in the region (though I'm not sure who – P&E or Science) to follow-up and provide the data so it can be incorporated in future, it is unlikely there is more we can do at this point to assist. [redacted]

V

From: Waters, Christa
Sent: 2017–March-08 11:43 AM
To: Docherty, Verna
Subject: FW: Mackerel landings from Maritimes

Perhaps you are acting at the moment.

[redacted]

Christa

Christa Waters
Regional Senior Fisheries Management Advisor
Resource Management | Gestion des Pêches
Maritimes Region | Région des Maritimes
Telephone | Téléphone 902-293-6541

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s.21(1)(b)

From: Waters, Christa
Sent: March 8, 2017 11:42 AM
To: Penney, Marcia Y; MacDonald, Carl
Cc: Hurtubise, Sylvain
Subject: Mackerel landings from Maritimes

Hello Marci,

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How long before this can be available?

Thanks,

Christa

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Docherty, Verna

From: Hurtubise, Sylvain
Sent: 2017–March-08 3:33 PM
To: Waters, Christa; Stone, Heath H
Cc: Doniol-Valcroze, Thomas; Docherty, Verna
Subject: RE: Port Sampling
Attachments: Confirmation - Besoins échantillonnage 2014 - BIO; Sampling requirements for 2015 - Mackerel; Sampling requirements for 2016 - Mackerel; RE: Sampling requirements for 2016 - Mackerel

Hello all,

FYI.

Here are the requests that were sent for mackerel samples between 2014 and 2016, plus Peter C.'s reply for the 2016 request.

And if it may help the link to the sampling protocol : https://ogsl.ca/en/protocol

Regards,

Sylvain

De : Waters, Christa
Envoyé : 8 mars 2017 14:14
À : Stone, Heath H
Cc : Hurtubise, Sylvain; Doniol-Valcroze, Thomas; Docherty, Verna
Objet : Port Sampling

Hello Heath,

Are you in charge of port sampling now? I would like to follow-up on port sampling issue that came up at the RAP process for Mackerel in Mont Joli.

If you are not the right person, please let me know who to contact.

Although I am not the official requestor of port samples, I just want to be sure that you are getting requests for mackerel samples. In addition, are there any monitoring protocols in place to ensure that samples are being taken? Science has a big gap from Maritimes with regard to samples. There is a gap for early fishery samples in the Maritimes. The trap net fishery will be starting up soon.

Thanks for looking into this for me, or sending me in the right direction of who to ask.

Thanks,

Christa

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Christa Waters
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s.19(1)

Dale, Francine

From: Morneau, Renee
Sent: June-02-14 12:54 PM
To: Hurtubise, Sylvain
Subject: Confirmation - Besoins échantillonnage 2014 - BIO
Attachments: 20140409 Horaire saison 2014 - Halifax.xls

De : Comeau, Peter
Envoyé : 10 avril 2014 10:57
À : Villeneuve, François
Objet : RE: Commercial Sampling needs for Quebec region - Mackerel

Hi Francois,

We are still trying to work out if we will be filling the Cape Breton position this year. The person we hired last year was only hired on for 3 months and spent one month at sea.

We are hoping to come up with a permanent solution to sampling eastern Nova Scotia. Unfortunately since the cod and haddock closures in 4VsW there has been a reduction in fishing in that part of the province.

Peter

From: Villeneuve, François
Sent: 2014–April-09 4:40 PM
To: Comeau, Peter
Cc: Gregoire, Francois
Subject: RE: Commercial Sampling needs for Quebec region - Mackerel

Hi Peter,

Here is ours needs for 2014 season.

Last season, we had not received samples from Cap-Breton. [redacted] **Do you know if somebody will replace him this season ?**

Thanks a lot,

François

De : Villeneuve, François
Envoyé : 4 avril 2013 16:51
À : Comeau, Peter
Cc : Gregoire, Francois
Objet : Commercial Sampling needs for Quebec region - Mackerel

Hi Peter,

I'm François Villeneuve from MLI, Québec region.

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I'm newly in charge of the commercial sampling programme for our region.

Here are the needs from our biologist (François Grégoire) for 2013 sampling season in BIO region.

I will send you this register each spring.

Thanks and have a good sampling season,

François

François Villeneuve

Chef, Section Monitorage et soutien technique | Head, Monitoring and technical support
Pêches et Océans Canada | Fisheries and Oceans Canada
Institut Maurice-Lamontagne
850 route de la mer
Mont-Joli (Québec) G5H 3Z4

Tél. : 418-775-0614 / télécopieur : (418) 775-0679
francois.villeneuve@dfo-mpo.gc.ca

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2014 4TVWX Mackerel Samples by Quarter

	Quarters				
Areas/Gears	1	2	3	4	All
4Vn Handline-Jigger			2	2	4
4Vn Trap		2	2		4
4X Trap		2	2		4
Total		4	6	2	12

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Dale, Francine

From: Hurtubise, Sylvain
Sent: April-02-15 3:03 PM
To: Comeau, Peter
Cc: Morneau, Renee
Subject: Sampling requirements for 2015 - Mackerel

Good afternoon Peter,

Please find attached the mackerel sampling requirements for the Quebec region in 2015.



Horaire saison échantillonnage...

Don't hesitate to contact me should you have any questions/concerns.

Thanks in advance!

Sylvain Hurtubise

Section Gestion de données | Data management section
Direction des avis, informations et soutien scientifiques | Scientific Advice, Information and Support Branch
Institut Maurice-Lamontagne | Maurice Lamontagne Institute
Pêches et Océans Canada | Fisheries and Oceans Canada
850, route de la Mer CP 1000
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Tél. : (418) 775-0684
Fax : (418) 775-0740
Sylvain.Hurtubise@dfo-mpo.gc.ca

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Mackerel

	Quarters				
Areas/Gears	**1**	**2**	**3**	**4**	**All**
4Vn Handline-Jigger			2	2	**4**
4Vn Trap		2	2		**4**
4X Trap		2	2		**4**
Total		4	6	2	**12**

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Confirmé par Martin

No information has been removed or severed from this page

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Dale, Francine

From: Hurtubise, Sylvain
Sent: April-04-16 12:45 PM
To: Comeau, Peter
Cc: Morneau, Renee
Subject: Sampling requirements for 2016 - Mackerel

Good afternoon Peter,

Please find attached the mackerel sampling requirements for the Quebec region in 2016.



Horaire saison échantillonnage...

Don't hesitate to contact me should you have any questions/concerns.

Thanks in advance!

Sylvain Hurtubise

Section Gestion de données | Data management section
Direction des avis, informations et soutien scientifiques | Scientific Advice, Information and Support Branch
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Mackerel

	Quarters				
Areas/Gears	**1**	**2**	**3**	**4**	**All**
4Vn Handline-Jigger			2	2	**4**
4Vn Trap		2	2		**4**
4X Trap		2	2		**4**
Total		4	6	2	**12**

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Confirmé par Thomas

No information has been removed or severed from this page

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Dale, Francine

From: Comeau, Peter
Sent: April-04-16 12:56 PM
To: Hurtubise, Sylvain
Cc: Stone, Heath H
Subject: RE: Sampling requirements for 2016 - Mackerel

Hi Sylvain,

I am forwarding this request to Heath Stone. I have moved into a new position and Heath is now the Science lead for the Maritimes Region Observer Program.

Peter

From: Hurtubise, Sylvain
Sent: 2016–April-04 1:45 PM
To: Comeau, Peter
Cc: Morneau, Renee
Subject: Sampling requirements for 2016 - Mackerel

Good afternoon Peter,

Please find attached the mackerel sampling requirements for the Quebec region in 2016.

<< File: Horaire saison échantillonnage 2016.xlsx >>

Don't hesitate to contact me should you have any questions/concerns.

Thanks in advance!

Sylvain Hurtubise

Section Gestion de données | Data management section
Direction des avis, informations et soutien scientifiques | Scientific Advice, Information and Support Branch
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Sylvain.Hurtubise@dfo-mpo.gc.ca

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de la Loi sur l'accès à l'information

s.19(1)

[redacted] - US U-Maryland Date March 9/17

- Migration Ecology of Marine Fishes

- concept of partial migration
  - some indiv go, others stay

- ICES J Mar Sci 2016 Hidalgo et al
  - ↳ Seascapes

- is predictive ecology feasible?
- eg Chesapeake striped bass, Atl Sturgeon, Hudson River striped bass, black bass, mackerel

Chesapeake Striped Bass
- some stay in bay, others → coastal fishery elsewhere
- 100 Vemco receivers, 100 transmitters
  - ↳ + a dozen other groups have lots more along the coast
- spring - fall release
- size assortative; coastal = big fish
  - → better parameterize fleet selectivity in stock synthesis models

Chesapeake Sturgeon
- believed extirpated
- CB is eutrophied, so modelled w/ a
  - → seascape approach

Page

Apr 2017

May 2017

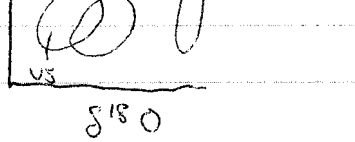
Date

→ very little nursery habitat
- reward program: 1400 sturgeon showed up in 10 years
- taggy sturgeon - showed up on recaps
- cryptic fall run
- observed distn ≠ predicted
- little evidence for selection for DO
- importance of recursion, test your model

Storm driven evacs by Hudson Riv Striped Bass
- 2011 - 2 tropical storms
- 2010 ctrl year
- storms ↑ water, ↓ salinity, ↓ temp + DO
- BACI
- Upper Est → coastal wat—
- lower est → more flexible

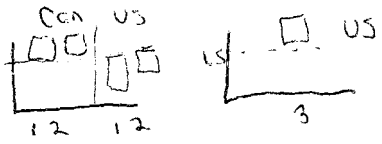
Storm evac Black Sea Bass
- simulated noise of construction
- hurricane - wat column inversion
-

Mackerel - Otolith Stable Isotopes
- mixing of contingents in Spring migrat'n
- $\delta^{18}O$ - affected by Gulf Stream
- colder temps ↑ $\delta^{18}O$
- otoliths 1990s - 2000s
- juvenile core
- lots of interannual variation



Page

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Date

→ 2 yr olds in same areas as 1 yr old
- older fish(3) in US waters are Canadian
  - at least for 1998-1999 year classes
- more research being done in advance of US assessment

- when are 3 year old southern fish?
  - could be tiny fraction
  - mystery
  - 1+2 year olds turn up in trawls
  - behaviour? gear? predation?
  - entrainment into northern migration?

40% B_{msy} = 122,000 t

B_{msy} = 305,000 t

80% B_{msy} = 244,000

Apr 2017

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Page

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Date

Priorities

- credibility of trend (multiple UL)
- method of advice (multiple F projections)
- LRP + current stock status
- 2015 recruitment importance
- US ^{210}Po micro chemistry data
- triggers for early assessment (COA6 commitment)
- bullets?

Isn't recruitment overfishing when the SPR is ↓ 35%?

Page

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s.19(1)
s.21(1)(b)

Marentette, Julie

From: Krohn, Martha
Sent: March-10-17 9:28 AM
To: Marentette, Julie
Subject: RE: Update

Awesome, thanks Julie! Funny they booked their flights last night if the meeting was scheduled to go on today. I will send you info on!!
Thanks so much,
Martha

From: Marentette, Julie
Sent: March-10-17 9:26 AM
To: Krohn, Martha
Subject: RE: Update

Hi Martha,

Yes the meeting finished yesterday, it went a bit over time but not by much. I didn't realize that many folks were flying out yesterday evening and I had already booked flights today just to be safe.

I have no working papers or electronic copies of figures to share, unfortunately, but can do so on Monday when I scan in the hard copies of slides that were provided at the meeting. Thomas indicated that he can provide slides as well

Please send the following to Jean as well:

Key Take-Away Messages

- The **modelled decline in SSB over time is robust to reasonable changes in the upper limit** of the censored Statistical Catch-at-age model (the two upper limits tested were a) derived from the survey data and literature review estimating bait/recreational use and discard mortality, as presented in the January framework meeting and b) all of the above with the addition of 50% of American/foreign declared catches in each year)
- The stock is in the **critical zone** (as before)
- Estimated SSB is currently around **40 000 t**. The calculated LRP is **102 000 t**.
- The LRP will be sensitive to changes in stock modelling, so it may change slightly at the 2019 assessment since it is derived from F40%.
- **2016 commercial catch data were preliminary and therefore of limited value to the stock assessment.**
- The Science Advice will emphasize the **need for stock rebuilding** (according to PA framework) and the **importance of reducing uncertainty** in the data for the undeclared catches.
-
- The Science Advice will emphasize that the projected **TAC scenarios will use total landings**, not just commercial TAC. The **proportion of total catch that is undeclared has in the past ranged from an estimated 150 to 200%**.
- There was some discussion about attempting longer term simulations (longer than the 2 year assessment framework), but nothing was presented at the meeting.
- **Some evidence of a stronger 2015 recruitment** although industry is reporting lots of small fish. a) the fishery closed before it moved very far away from NL in 2016, and those catches in NL, purse seines, had very few small fish; b) 2016 catch data are still preliminary, and c) the 2015 year class isn't spawning yet, but may show up in the 2017 egg survey data.

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s.21(1)(b)

- **Logistical constraints preclude the setting of early triggers for stock assessment** (e.g., commercial sampling data does not become available to calibrate the egg survey data into an SSB index until February of the next year, giving less than one month to set up a stock assessment)
- [redacted]

Thanks,
Julie

From: Krohn, Martha
Sent: March 10, 2017 09:03
To: Marentette, Julie
Subject: RE: Update

Thanks Julie! So the meeting is finished? I was thinking it went til noon today?
Can I forward this e-mail to Jean? I think that he would be interested but want to check you are ok with that.

Safe trip!
Martha

-----Original Message-----
From: Marentette, Julie
Sent: March-10-17 8:59 AM
To: Krohn, Martha
Subject: RE: Update

Hi Martha,

I've requested the draft bullets but have not received them yet. I may not until Monday. There were difficulties with the translation during this discussion (lots of static, and the translator had difficulties with all the cross-talk), but I don't anticipate any major issues with the bullets.

[redacted]

[redacted]. And there will be a new biologist to train anyways. For example the egg survey needs to be adjusted to SSB by the commercial sampling data on fecundity and age. Commercial sampling finishes in December and it is often difficult to get full data from these samples by February in which event it is too late to call a full stock assessment for March. The 2016 data for this assessment weren't even complete.

The preliminary US otolith data are certainly odd. They looked at otoliths of mackerel caught from the US fishery/bottom trawl surveys. Their 1 and 2 year old mackerel that show up in the bottom trawl appear to be at least mostly American born (Gulf of Maine spawning). So they are being caught roughly where they are born, makes sense. However, all their 3 year old fish that they tested, in the US, were Canadian/northern contingent! So where are the American 3 year old fish? - no one knows. Either they are there but in such a tiny proportion they don't show up, or maybe they are dying off, or maybe they are becoming entrained into the Canadian spawning migrations. They will be looking at microchemistry data from Canadian samples as well. [redacted]

[redacted] Bizarre but very interesting preliminary data. [redacted]
t

Industry members feel that the species is cyclical and the stock is in better shape than what the scientists say.

[redacted]

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s.21(1)(b)

I'm returning to Ottawa this afternoon, see you Monday!

Julie

From: Krohn, Martha
Sent: March 9, 2017 13:25
To: Marentette, Julie
Subject: RE: Update

Thanks Julie! Super interesting!
Too bad about the weather...
I would have thought that all Gulf fish are Canadian....its the us waters where the two stock components are mixed?
Enjoy the rest of the meeting!
Martha

-----Original Message-----
From: Marentette, Julie
Sent: March-09-17 1:04 PM
To: Krohn, Martha
Subject: Update

Hi Martha,

Assessment is going well, not much to update yet. Many people who should be here are not due to weather, Yesterday was mostly review, today is assessment. Little evidence of stronger 2015 year class due to how the 2016 fishery unfolded. Interesting us data on otolith microchem, apparently all their 3 year Olds are canadian fish. Otolith stuff ongoing with canadian sample.

Julie

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s.21(1)(b)

Marentette, Julie

From: Marentette, Julie
Sent: March-10-17 10:12 AM
To: Krohn, Martha
Subject: RE: mackerel assessment informal summary

Hi Martha,

I'm sorry, I see I missed your question - [redacted]

Thanks!!

From: Marentette, Julie
Sent: March 10, 2017 10:07
To: Krohn, Martha
Subject: RE: mackerel assessment informal summary

Hi Martha,

Edited in red.

I think the briefing materials (the wall and the 101-style document) can't be fully updated until we have figures and exact numbers to replace the older information. Even the graphs presented at the meeting were still preliminary... and no working papers were distributed. The final figures will become available when the SAR document is distributed next week. Would you still like me to create a partial update today?

or should I call Martin and see if he can send me something, anything, to put in?

Thanks!
Julie

From: Krohn, Martha
Sent: March 10, 2017 09:52
To: Marentette, Julie
Subject: mackerel assessment informal summary

Hi Julie,

Can you check this is still ok ? I edited a bit for ADM audience? [redacted]

Thanks!!

Martha

If you have time before your flight you could start updating the mackerel pkg that never went up? (I don't think)

Key Take-Away Messages

Document Released Under the Access to Information Act / Document divulgué en vertu de la Loi sur l'accès à l'information.

- The **modelled decline in SSB over time is robust to reasonable changes in the upper limit** of the censored Statistical Catch-at-age model (the two upper limits tested were a) derived from the survey data and literature review estimating bait/recreational use and discard mortality, as presented in the January framework meeting and b) all of the above with the addition of 50% of American/foreign declared catches in each year)
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Additional info on results presented on US caught mackerel:

Some preliminary US otolith microchemistry data identifying where fish were spawned were presented and were hard to interpret. They looked at otoliths of mackerel caught from the US fishery/bottom trawl surveys. Their 1 and 2 year old mackerel that show up in the bottom trawl appear to be at least mostly American born (southern contingent, Gulf of Maine spawning). So they are being caught roughly where they are born. However, all their 3 year old fish that they tested, in the US, were Canadian/northern contingent.

The question then is where are the American 3 year old fish? Either they are there but in such a tiny proportion they don't show up in the sample, or maybe they are dying off, or maybe they are becoming entrained into the Canadian spawning migrations. They will be looking at microchemistry data from Canadian (DFO-supplied) samples as well.

These results may increase the importance of considering American catch levels in the DFO assessment. The US researcher indicated that it is important to do more analyses before the November US stock assessment, in which DFO staff are participating.

Industry members feel that the species is cyclical and the stock is in better shape than what the scientists say.

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s.21(1)(b)

Marentette, Julie

From: Krohn, Martha
Sent: March-10-17 10:19 AM
To: Marentette, Julie
Subject: RE: mackerel assessment informal summary

All good Julie, wait til you have the info you need! Thanks!!

From: Marentette, Julie
Sent: March-10-17 10:07 AM
To: Krohn, Martha
Subject: RE: mackerel assessment informal summary

Hi Martha,

Edited in red.

I think the briefing materials (the wall and the 101-style document) can't be fully updated until we have figures and exact numbers to replace the older information. Even the graphs presented at the meeting were still preliminary... and no working papers were distributed. The final figures will become available when the SAR document is distributed next week. Would you still like me to create a partial update today?

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Thanks!
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Sent: March 10, 2017 09:52
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s.21(1)(b)

Patterson, Pauline

De: Rivierre, Antoine
Envoyé: March-10-17 5:08 PM
À: Gros-Louis, Denis; Boudreau, Suzie
Objet: ENJEUX: Évaluation des stocks de Maquereau

Denis et Suzie,
Voici un résumé de l'évaluation des stocks de maquereau qui a eu lieu les 8 et 9 mars.

- Entre 2013 et 2015, les débarquements (déclarés) sont passés de 8 663 tonnes à 4143 tonnes
- En 2016, le TAC de 8000 tonnes aurait été atteint pour la première fois
- Les différents indicateurs biologiques présentés et l'analyse des débarquements indiquent que le stock de maquereau se situe dans la zone critique
-

FAITS MARQUANTS

-
-
-
- Une note sera acheminée au directeur régional des sciences pour lui faire part de cette situation

RECOMMANDATION
Compte tenu de l'état critique du stock, il est suggéré de faire part aux autres régions administratives de nos préoccupations concernant le suivi des débarquements et la quantification de l'effort réel de pêche (commercial + appât + récréatif).

Merci

Antoine Rivierre

Conseiller principal p. i.,
Espèces pélagiques, mammifères marins
Gestion de la ressource et des affaires autochtones / Pêches et Océans Canada / Gouvernement du Canada
Antoine.rivierre@dfo-mpo.gc.ca / Tél. : 418.640.2636

Senior Advisor a. i.,
Pelagic species, Marine Mammals
Resource Management and Aboriginal Affairs / Fisheries and Oceans Canada / Government of Canada
Antoine.rivierre@dfo-mpo.gc.ca / Tél. : 418.640.2636

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Cormier, Mélanie

De: Lester, Brian
Envoyé: 10 mars 2017 16:03
À: Mallet, Pierre; Rivierre, Antoine; Doniol-Valcroze, Thomas; Castonguay, Martin; Dunne, Erin; Waters, Christa
Cc: Cawthray, Jenness; Browne, Ryan
Objet: Meeting with Indigenous Interests-

Hello all: As some of you may now know, the APC is hosting a conference for FN Fisheries managers and CFLCs Wednesday March 29 and the morning of March 30th in Halifax, NS. As this would conflict with the planned meeting on the 29th, I am considering moving the meeting with FN to the 28th. We could go through the Science and Agenda with FNs as some may miss the morning of AMAC.

Would any of you be able to attend a meeting in the PM of the 28th, most specifically someone from Science?

I need to take a decision early next week. Let me know your thoughts.

Thanks
Brian

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s.21(1)(b)

Thomas, Tashina

From: Thomas, Tashina
Sent: March-10-17 1:11 PM
To: Lapierre, Daniel
Subject: RE: Hail In directives - Mackerel

The first part is dead on. To clarify the rest, harvesters only hail-in to advise the DMCs of an estimate of the catch and their landing port (usually 1-2 hours prior to landing). Because there were no DMP requirements at all in the mackerel fishery, there were no hail-ins. The reason for 100% hail-ins, is to help the DMCs better manage their effort.

Let me know if you have other questions, I was going to go stop by this afternoon to make sure everything is clear.

Tashina

From: Lapierre, Daniel
Sent: March-10-17 12:53 PM
To: Thomas, Tashina
Subject: Hail In directives - Mackerel

Tashina – further to our conversation, I just want to make sure I got this right so I can provide Ron with accurate information...

What's being proposed:

100% Hail In, with a corresponding (actual) Offloading (weigh out) established at 25% (ex. 1 out of 4 trips would actually be measured) - you also mentioned that this anticipated target will probably fluctuate (ex. Qc Region) based on both the industry's demand and DMC's decision to dispatch DO's onsite or not given how much resources (staff) they have available (I assume). However, not sure I completely grasped that portion of the discussion and would appreciate if you could provide clarifications -

Let me know if I'm totally off track ☺

Merci

Daniel

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Krohn, Martha

From: Landry, Jean
Sent: March-13-17 10:45 AM
To: McPherson, Arran; Murray, Marie-Michèle
Cc: Krohn, Martha; Marentette, Julie
Subject: TR: mackerel assessment informal summary

Categories: Red Category

Arran,

As discussed, below is the summary (thanks Julie) of the mackerel full assessment conducted on March 8-9 in Mont-Joli. I did not have time to get a debrief on this assessment. At a first glance, I have few questions/concerns about the info below.

Please let us know if you want us to prepare a specific text for Trevor this week. We will keep tracking of next steps with the region as I expect they should provide us with their formal summary bullets sometimes this week. Also we will have to track their SAR (e.g. timing of release vs consultations and TAC decision) as I understand that no draft report was submitted at the review so a lot of work may be required to complete the publication process.

M3: Arran asked that you book a 30 min meeting next week on this matter (between Monday and Wednesday as Julie will be on travel the rest of the week).
Julie: I recommend that you present an overview of both the framework and assessment meetings for Arran. Thanks again

Jean

Jean Landry

Director , Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Jean.Landry@dfo-mpo.gc.ca / Tel: 613-993-0029

Directeur, Sciences halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Jean.Landry@dfo-mpo.gc.ca / Tél. : 613-993-0029

Government of Canada Gouvernement du Canada

Canada

De : Krohn, Martha
Envoyé : 10 mars 2017 11:15
À : Landry, Jean <Jean.Landry@dfo-mpo.gc.ca>
Cc : Marentette, Julie <Julie.Marentette@dfo-mpo.gc.ca>
Objet : FW: mackerel assessment informal summary

Hi Jean,

Please find below highlights of the mackerel assessment from Julie. Thanks very much Julie for these great notes.

s.21(1)(b)
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Looks like the advice will be easier to work with tis year for a number of reasons,

We will be providing you with updated briefing information (101, and the detailed piece on the mackerel framework assessment model) early next week.

We will forward the summary bullets when they are available.

Thanks!

Martha

Key Take-Away Messages

- The **modelled decline in SSB over time is robust to reasonable changes in the upper limit** of the censored Statistical Catch-at-age model (the two upper limits tested were a) derived from the survey data and literature review estimating bait/recreational use and discard mortality, as presented in the January framework meeting and b) all of the above with the addition of 50% of American/foreign declared catches in each year)
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Additional info on results presented on US caught mackerel:

Some preliminary US otolith microchemistry data identifying where fish were spawned were presented and were hard to interpret. They looked at otoliths of mackerel caught from the US fishery/bottom trawl surveys. Their 1 and 2 year old mackerel that show up in the bottom trawl appear to be at least mostly American born (southern contingent, Gulf of Maine spawning). So they are being caught roughly where they are born. However, all their 3 year old fish that they tested, in the US, were Canadian/northern contingent.

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These results

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s.21(1)(b)

[redacted] may increase the importance of considering American catch levels in the DFO assessment. The US researcher indicated that it is important to do more analyses before the November US stock assessment, in which DFO staff are participating.

Industry members feel that the species is cyclical and the stock is in better shape than what the scientists say.

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Marentette, Julie

From: Doniol-Valcroze, Thomas
Sent: March-13-17 11:40 AM
To: Marentette, Julie
Subject: RE: Request for draft bullets: Mackerel assessment
Attachments: SUMMARY.docx

Julie,

Here are the bullets in both languages. Note that they are still considered draft at this point.

Thomas

De : Marentette, Julie
Envoyé : 13 mars 2017 10:36
À : Doniol-Valcroze, Thomas; Castonguay, Martin
Objet : RE: Request for draft bullets: Mackerel assessment

Good morning,

If the draft bullets are available – I need to send these to our management (with the understanding that they are draft).

Thanks for a great meeting last week!

Best regards,

Julie Marentette, Ph.D.

Science Advisor, Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Julie.Marentette@dfo-mpo.gc.ca /Tel: 613-943-2098

Conseillère scientifique, Sciences des populations halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Julie.Marentette@dfo-mpo.gc.ca /Tél: 613-943-2098

From: Marentette, Julie
Sent: March-09-17 8:17 PM
To: Doniol-Valcroze, Thomas; Castonguay, Martin
Subject: Request for draft bullets: Mackerel assessment

Hello Thomas and Martin,

Great meeting this week - please send me the draft bullets when you have a moment so I can pass along to my management.

Thanks very much!
Julie

Pages 957 to / à 959

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pages 1820 to / à 1822

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Marentette, Julie

From: Doniol-Valcroze, Thomas
Sent: March-13-17 11:47 AM
To: Marentette, Julie
Subject: RE: Request for draft bullets: Mackerel assessment

Julie,

Here are the English slides from both days of the assessment.
Please note that I am in a workshop all day tomorrow, so I'll be able to review your document either later today or Wednesday morning.

Thomas

De : Marentette, Julie
Envoyé : 13 mars 2017 11:35
À : Doniol-Valcroze, Thomas
Objet : RE: Request for draft bullets: Mackerel assessment

Thanks!

Could I also request electronic copies of the English slides distributed last week?

So you are aware, I am drafting a meeting summary and PowerPoint presentation to brief the DG by early next week, which means I'll need to have the documents ready, reviewed by you (if you have time) for accuracy by COB tomorrow, and sent up to my Director by this Wednesday morning. I'd like to include the figures from your presentation if possible and not scan in the hard copies from the meeting since they are in black and white. I know you are very busy with the SAR, so I wanted to give you as much notice as possible. Thanks!

Best regards,

Julie Marentette, Ph.D.

Science Advisor, Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Julie.Marentette@dfo-mpo.gc.ca /Tel: 613-943-2098

Conseillère scientifique, Sciences des populations halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Julie.Marentette@dfo-mpo.gc.ca /Tél: 613-943-2098

From: Doniol-Valcroze, Thomas
Sent: March-13-17 10:51 AM
To: Marentette, Julie; Castonguay, Martin
Subject: RE: Request for draft bullets: Mackerel assessment

Julie,

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I am translating them as we speak. Should be ready soon.

De : Marentette, Julie
Envoyé : 13 mars 2017 10:36
À : Doniol-Valcroze, Thomas; Castonguay, Martin
Objet : RE: Request for draft bullets: Mackerel assessment

Good morning,

If the draft bullets are available – I need to send these to our management (with the understanding that they are draft).

Thanks for a great meeting last week!

Best regards,

Julie Marentette, Ph.D.

Science Advisor, Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Julie.Marentette@dfo-mpo.gc.ca /Tel: 613-943-2098

Conseillère scientifique, Sciences des populations halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Julie.Marentette@dfo-mpo.gc.ca /Tél: 613-943-2098

From: Marentette, Julie
Sent: March-09-17 8:17 PM
To: Doniol-Valcroze, Thomas; Castonguay, Martin
Subject: Request for draft bullets: Mackerel assessment

Hello Thomas and Martin,

Great meeting this week - please send me the draft bullets when you have a moment so I can pass along to my management.

Thanks very much!
Julie

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Marentette, Julie

From: Doniol-Valcroze, Thomas
Sent: March-13-17 11:48 AM
To: Marentette, Julie
Subject: RE: Request for draft bullets: Mackerel assessment
Attachments: mackerel_assessment_day1.pdf; mackerel_assessment_day2.pdf

Forgot the files...

De : Marentette, Julie
Envoyé : 13 mars 2017 11:35
À : Doniol-Valcroze, Thomas
Objet : RE: Request for draft bullets: Mackerel assessment

Thanks!

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Envoyé : 13 mars 2017 10:36

Document Released Under the Access to Information Act / Document divulgué en vertu de la Loi sur l'accès à l'information.

À : Doniol-Valcroze, Thomas; Castonguay, Martin
Objet : RE: Request for draft bullets: Mackerel assessment

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Julie Marentette, Ph.D.

Science Advisor, Fish Population Science
Fisheries and Oceans Canada / Government of Canada
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Sent: March-09-17 8:17 PM
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Subject: Request for draft bullets: Mackerel assessment

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Great meeting this week - please send me the draft bullets when you have a moment so I can pass along to my management.

Thanks very much!
Julie

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s.21(1)(b)

Cormier, Mélanie

De: Cawthray, Jenness
Envoyé: 13 mars 2017 14:06
À: Castonguay, Martin; Doniol-Valcroze, Thomas; Waters, Christa
Cc: Lester, Brian; Rivierre, Antoine
Objet: RE: AMAC

Thank you Martin, I just wanted to ensure that we would have the information available for the meeting.
I have scheduled a meeting with Resource Management and Science to discuss AMAC next Tuesday and we can discuss further at that time. Looks like you are not available; however, Thomas has confirmed his attendance.

From: Castonguay, Martin
Sent: March-13-17 1:52 PM
To: Cawthray, Jenness; Doniol-Valcroze, Thomas; Waters, Christa
Cc: Lester, Brian; Rivierre, Antoine
Subject: RE: AMAC

Jenness,

Yes the plan is to produce a TAC scenario table in the body of the SAR which will presented at AMAC. This TAC scenario table could be ready next week.

We will first get our Science director to sign off the summary before distribution. We should be able to send you the bilingual summary later this week.

Hope this works for you,

Martin

De : Cawthray, Jenness
Envoyé : 13 mars 2017 13:26
À : Castonguay, Martin; Doniol-Valcroze, Thomas; Waters, Christa
Cc : Lester, Brian; Rivierre, Antoine
Objet : RE: AMAC

Hi Martin,

At the meeting we had talked about preparing TAC scenarios that could be useful to management [redacted] It was suggested that this could be presented in Table format; however, will leave that to your discretion. [redacted] I am linking in Christa Waters to the discussion as she has more familiarly on this and provided some feedback during the meeting on this issue.

Could you also provide us with a draft copy of the summary? It was difficult to capture all the information as there was a lot of interference happening with the French audio translation during the meeting.

Thank you,
Jenness

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s.19(1)
s.21(1)(b)

From: Castonguay, Martin
Sent: March-13-17 1:15 PM
To: Cawthray, Jenness; Doniol-Valcroze, Thomas
Cc: Lester, Brian
Subject: RE: AMAC

Jenness,

[redacted] We are doing this year what we do each time, i.e. we agree on the summary as a group. As soon as the summary is signed off by our Director of Science, the advice is then official, even though the text of the SAR is not yet completed.

We will distribute the summary at AMAC but the SAR text may not be ready.

Martin

De : Cawthray, Jenness
Envoyé : 13 mars 2017 13:09
À : Doniol-Valcroze, Thomas; Castonguay, Martin
Cc : Lester, Brian
Objet : AMAC
Importance : Haute

Hi Martin and Thomas,

Can you confirm when you expect to have advice ready on TAC for the advisory meeting. [redacted]

I just had a conversation with Brian and we would like to confirm that you will have the TAC advice ready at least several days before the AMAC meeting and Aboriginal Consultation meeting and if we will be able to a circulate a paper. Please confirm is this is feasible, what information you expect to have available for AMAC or if the timelines are too tight.

Much appreciated,

Jenness Cawthray
Senior Fisheries and Aquaculture Management Officer |
Agent principal, Gestion des pêches et de l'aquaculture
Fisheries and Oceans | Pêches et océans
200 rue Kent Street - 13S013 Ottawa, ON, K1A 0E6
Jenness.Cawthray@dfo-mpo.gc.ca
Telephone | Téléphone (613) 998-1524
Facsimile | Télécopieur (613) 990-7051
Government of Canada | Gouvernement du Canada

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s.19(1)

From: Doniol-Valcroze, Thomas
Sent: March-13-17 11:45 AM
To: Cawthray, Jenness; Castonguay, Martin
Cc: Lester, Brian
Subject: RE: Meeting with Indigenous Interests-

Jenness,

[redacted] yes I'll do my best to attend. Please let me know ASAP if this is confirmed so that I can change my flights while there are still available seats (preferably today).

Thomas

De : Cawthray, Jenness
Envoyé : 13 mars 2017 09:05
À : Castonguay, Martin; Doniol-Valcroze, Thomas
Objet : FW: Meeting with Indigenous Interests-
Importance : Haute

Hi Martin and Thomas,
It was a pleasure meeting with you both last week.
We have had some challenges planning the aboriginal consultations. As such, we are planning to move the meeting to the afternoon of Tuesday, March 28th. Could one of you please confirm your attendance at this meeting?
Thank you!
Jenness

From: Lester, Brian
Sent: March-10-17 4:03 PM
To: Mallet, Pierre; Rivierre, Antoine; Doniol-Valcroze, Thomas; Castonguay, Martin; Dunne, Erin; Waters, Christa
Cc: Cawthray, Jenness; Browne, Ryan
Subject: Meeting with Indigenous Interests-

Hello all: As some of you may now know, the APC is hosting a conference for FN Fisheries managers and CFLCs Wednesday March 29 and the morning of March 30th in Halifax, NS. As this would conflict with the planned meeting on the 29th, I am considering moving the meeting with FN to the 28th. We could go through the Science and Agenda with FNs as some may miss the morning of AMAC.

Would any of you be able to attend a meeting in the PM of the 28th, most specifically someone from Science?

I need to take a decision early next week. Let me know your thoughts.

Thanks
Brian

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Cyr, Charley

De: Doniol-Valcroze, Thomas
Envoyé: 13 mars 2017 14:15
À: Cyr, Charley
Objet: faits saillants Maquereau
Pièces jointes: Summary_Mackerel2017.docx

Charley,

Voici la version bilingue des faits saillants pour approbation.

Merci de m'indiquer quand je pourrais les distribuer à la gestion.

Thomas

Thomas Doniol-Valcroze, PhD
Biologiste en sciences aquatiques | Aquatic Science Biologist
Direction des Sciences Pélagiques et des Écosystèmes | Pelagic and Ecosystems Sciences Branch
Pêches et Océans Canada | Fisheries and Oceans Canada
Institut Maurice-Lamontagne | Maurice-Lamontagne Institute
850, route de la mer, Mont-Joli, QC, Canada G5H 3Z4
thomas.doniol-valcroze@dfo-mpo.gc.ca
Téléphone | Telephone 418-775-0589
Télécopieur | Facsimile 418-775-0740

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pages 1820 to / à 1822

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Marentette, Julie

From: Lester, Brian
Sent: March-14-17 2:39 PM
To: Cawthray, Jenness; Marentette, Julie
Subject: FW: Question re: 2016 Mackerel Fishery?
Attachments: image001.png; image002.png; image003.png

FYI - see response from Erin in NL

From: Dunne, Erin
Sent: Tuesday, March 14, 2017 12:40 PM
To: Lester, Brian
Subject: RE: Question re: 2016 Mackerel Fishery?

Brian, there were 24 purse seine landings in 3K and 28 fixed gear (tuck/bar, trap, beach and net) landings. The largest volume of fish was landed by the purse seiners. I don't have information on % of small fish.
Erin

From: Lester, Brian
Sent: March-13-17 7:54 PM
To: Marentette, Julie; Cawthray, Jenness
Cc: Dunne, Erin
Subject: Re: Question re: 2016 Mackerel Fishery?

Hello Julie: I have copied Erin Dunne from the NL Region whom can correct me if I am wrong, but I would expect that the catches in 3k would have been mainly by small seiners/tuck seiners so they would see young fish if they were there. I would guess it depends on the year class available but perhaps the stock in 3K wasn't from the 2015 year class.

Erin: Any comment?

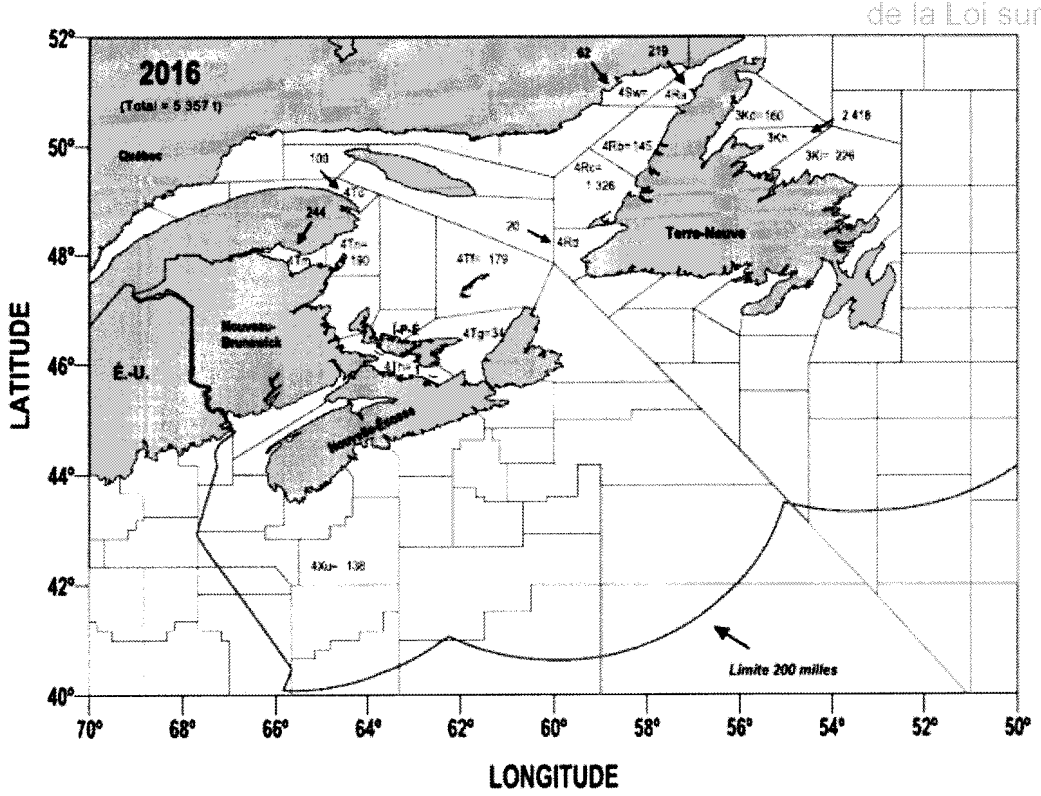
Sent from my BlackBerry 10 smartphone on the Rogers network.
From: Marentette, Julie
Sent: Monday, March 13, 2017 2:50 PM
To: Cawthray, Jenness; Lester, Brian
Subject: Question re: 2016 Mackerel Fishery?

Hello Brian and Jenness,

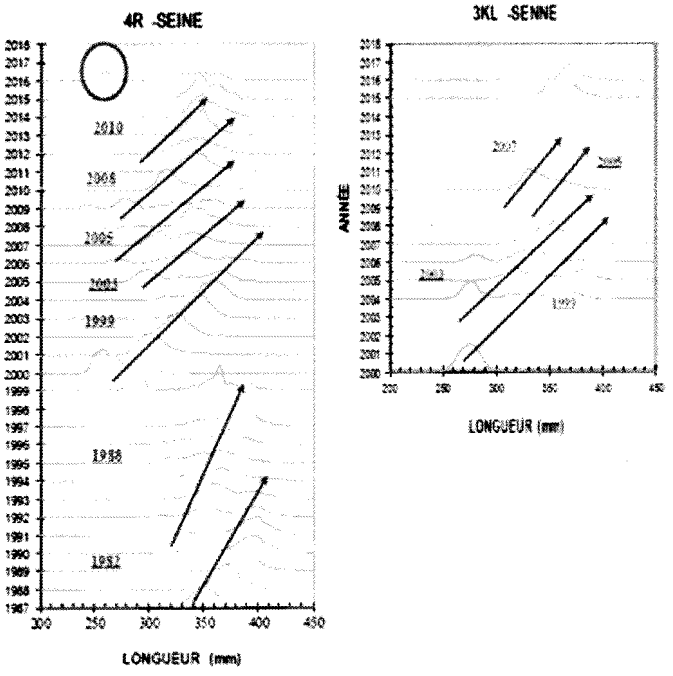
I have a question about how the mackerel fishery proceeded in 2016 and its relation to evidence for the 2015 year class that was presented last week at the Mackerel assessment in Mont Joli.

It was my understanding at the meeting that part of the reason we are only seeing weak evidence for the 2015 year class is a result of where the fish were being caught and the gear that was in use, before the TAC was reached and fishery was closed in October. Most of the fishery landings in 2016 (reported catch by region given below, with the caveat that the data are still being compiled/reconciled) was in the 3KL region, and the gear types used there are less likely to see/report large numbers of smaller fish. I think these are purse seines?

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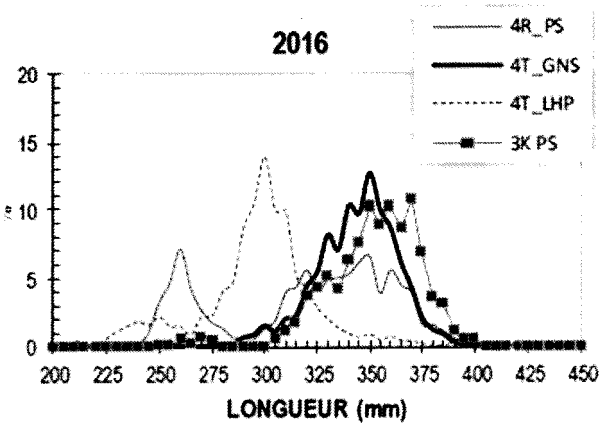


If this is true, then why does 4R see the "hump" of the new year class (in red circle below), but not 3KL? Both are listed as seines here.



And both are shown as purse seines here, only the samples from 4R get a hump of small fish and 3K does not.

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Thanks!!

Best regards,

Julie Marentette, Ph.D.
Science Advisor, Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Julie.Marentette@dfo-mpo.gc.ca /Tel: 613-943-2098
Conseillère scientifique, Sciences des populations halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Julie.Marentette@dfo-mpo.gc.ca /Tél: 613-943-2098

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Pêches et Océans Canada | Fisheries and Oceans Canada

Direction des sciences
Région du Québec
Direction avis, informations et soutien scientifiques

Science Branch
Quebec Region
Scientific advice, Information and Support Branch

Classif. sécurité/Security

NOTE DE SERVICE / MEMORANDUM **Le 14 mars 2017**

À: TO: Michel Gilbert
Directeur
Dir. Sciences pélagiques et environnementales

Votre réf./Your ref.

Notre réf./Our ref.

DE: FROM: Charley Cyr
Dir. Avis, information et soutien scientifiques

OBJET: SUBJECT: **Approbation du document de recherche no 2017/xxx** « Results of an informal survey of Canadian Atlantic mackerel commercial, recreational and bait fishers »

Le document cité en rubrique sera publié dans la série "Document de recherche" du Secrétariat canadien de consultation scientifique (SCCS).

Le document a été révisé lors de la revue par les pairs sur la révision du cadre d'évaluation pour le maquereau bleu des sous-régions 3 et 4 qui s'est tenue à Mont-Joli du 18 au 20 janvier 2017. Il a également été révisé et approuvé par Kim Émond et Johanne Gauthier. Ce document vous est donc présenté pour approbation finale avant d'être acheminé au SCCS à Ottawa. Permettez-moi de porter à votre attention que ce document est unilingue anglais et que votre approbation portera également sur ce point.

Suivant votre approbation, veuillez retourner la présente à l'expéditeur.

Charley Cyr

p. j. (1)

Approbation :

Date : 17/03/17

Michel Gilbert
Directeur
DSPE

Canada

Institut Maurice-Lamontagne / Maurice-Lamontagne Institute
850 route de la Mer, C.P. 1000, Mont-Joli, QC G5H 3Z4

Document available at: http://publications.gc.ca/collections/collection_2017/mpo-dfo/Fs70-5-2017-029-eng.pdf

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Fisheries and Oceans Canada | Pêches et Océans Canada

Ecosystems and Oceans Science | Sciences des écosystèmes et des océans

Canadian Science Advisory Secretariat (CSAS)

Research Document 2017/029

Quebec Region

Results of an informal survey of Canadian Atlantic mackerel commercial, recreational and bait fishers

Elisabeth Van Beveren, Martin Castonguay, Thomas Doniol-Valcroze, Daniel Duplisea

Fisheries and Oceans Canada
Institut Maurice-Lamontagne
850 route de la Mer
Mont-Joli, QC
G5H 3Z4

April 2017

Canada

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Pages 1078 to / à 1107
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s.19(1)

Bruxer, Shelby

From: Trudeau, Miriam
Sent: March-14-17 9:48 AM
To: Lester, Brian; Docherty, Verna; Waters, Christa; Kerwin, Jessica
Cc: Rossignol, Pauline; Berthier, Jacinta; Cawthray, Jenness; Jenkins, Randy
Subject: RE: Atlantic Mackerel Meetings in Halifax

Thanks Brian :)

-----Original Message-----
From: Lester, Brian
Sent: Tuesday, March 14, 2017 9:27 AM
To: Docherty, Verna <Verna.Docherty@dfo-mpo.gc.ca>; Waters, Christa <Christa.Waters@dfo-mpo.gc.ca>; Kerwin, Jessica <Jessica.Kerwin@dfo-mpo.gc.ca>; Trudeau, Miriam <Miriam.Trudeau@dfo-mpo.gc.ca>
Cc: Rossignol, Pauline <Pauline.Rossignol@dfo-mpo.gc.ca>; Berthier, Jacinta <Jacinta.Berthier@dfo-mpo.gc.ca>; Cawthray, Jenness <cawthrayj.Cawthray@dfo-mpo.gc.ca>; Jenkins, Randy <Randy.Jenkins@dfo-mpo.gc.ca>
Subject: RE: Atlantic Mackerel Meetings in Halifax

Hello all: Invites to this meeting went out of NHQ and the FFAW, that represents the fleet that [redacted] is a part of, will be attending the meeting in Halifax on March 30th.

There is no separate meeting in NL and [redacted] as a participant in this fishery, is welcome to attend the AMAC meeting in Halifax if he so wishes.

As Chair of the AMAC I would be happy to speak with [redacted] if need be.

Brian

From: Docherty, Verna
Sent: Tuesday, March 14, 2017 8:14 AM
To: Waters, Christa; Kerwin, Jessica; Lester, Brian
Subject: FW: Atlantic Mackerel Meetings in Halifax

Good morning all! I'm hoping one of you knows the answers to these questions. Who is responsible for the mackerel invites and is there more than one meeting taking place in Halifax? Is a similar meeting also occurring in NL Region?
Thanks,
V

From: Ford, Jennifer
Sent: 2017–March-14 9:07 AM
To: Docherty, Verna
Subject: FW: Atlantic Mackerel Meetings in Halifax
Importance: High

Hi,
I'm not sure why I was copied on this, maybe a mistake. I don't know the answer to this, or who to ask given that Christa is out. Maybe Brian Lester or Jessica Kerwin? At least one of the meetings is the Atlantic Mackerel Advisory Committee, which I assume is open to folks from all Regions.

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Jen

From: Rossignol, Pauline
Sent: March-13-17 6:02 PM
To: Wentzell, Doug
Cc: Berthier, Jacinta; Ford, Jennifer
Subject: FW: Atlantic Mackerel Meetings in Halifax
Importance: High

Hi Doug, as per below, we are asked if [redacted] from NL) can attend Mackerel meetings here. I am not sure if this is possible – please provide a short response. Thanks

Pauline

From: Trudeau, Miriam
Sent: March-13-17 5:59 PM
To: Rossignol, Pauline
Cc: Butcher, Ashley; Hopkins, Lillian; Malko, Carol; Patrick, Lindsey
Subject: FW: Atlantic Mackerel Meetings in Halifax
Importance: High

Salut Pauline,

Qui s'occupe des invitations pour les rencontres sur le maquereau qui se tiendront à Halifax ? Est-ce que [redacted] (see below) peut participer ?

Miriam ☺

From: Trudeau, Miriam
Sent: Saturday, March 11, 2017 5:30 PM
To: Burns, Adam <Adam.Burns@dfo-mpo.gc.ca<mailto:Adam.Burns@dfo-mpo.gc.ca>>; Lapointe, Sylvie <Sylvie.Lapointe@dfo-mpo.gc.ca<mailto:Sylvie.Lapointe@dfo-mpo.gc.ca>>
Cc: Hopkins, Lillian <Lillian.Hopkins@dfo-mpo.gc.ca<mailto:Lillian.Hopkins@dfo-mpo.gc.ca>>; Patrick, Lindsey <Lindsey.Patrick@dfo-mpo.gc.ca<mailto:Lindsey.Patrick@dfo-mpo.gc.ca>>; Malko, Carol <Carol.Malko@dfo-mpo.gc.ca<mailto:Carol.Malko@dfo-mpo.gc.ca>>; Butcher, Ashley <Ashley.Butcher@dfo-mpo.gc.ca<mailto:Ashley.Butcher@dfo-mpo.gc.ca>>
Subject: Atlantic Mackerel Meetings in Halifax
Importance: High

Sylvie/Adam

MINO was asked if [redacted] can attend the Atlantic Mackerel meetings in Halifax

Can you let me know? Unless there are sessions planned in NL (I would need dates/locations if you have that info)

Merci!

Miriam

Sent from my BlackBerry 10 smartphone on the Rogers network.

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Marentette, Julie

From: Doniol-Valcroze, Thomas
Sent: March-15-17 11:15 AM
To: Marentette, Julie; Castonguay, Martin
Subject: RE: Request for Advice on removing Mackerel Small Fish Protocol?
Attachments: GP_01_2017 - Petits maquereaux - Régional - 2016-10-03.doc

This is what we had received.

De : Marentette, Julie
Envoyé : 15 mars 2017 10:18
À : Castonguay, Martin; Doniol-Valcroze, Thomas
Objet : Request for Advice on removing Mackerel Small Fish Protocol?

Hello Martin and Thomas,

At the Mackerel meeting last week, you mentioned that your team had received a request for advice about removing the small fish protocol for the mackerel fishery.

Do you have a copy of this request you can share, with the rationale? Was it through a CSAS process?

Thanks!

Best regards,

Julie Marentette, Ph.D.

Science Advisor, Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Julie.Marentette@dfo-mpo.gc.ca /Tel: 613-943-2098

Conseillère scientifique, Sciences des populations halieutiques
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s.21(1)(b)

Pêches et Océans Canada | Fisheries and Oceans Canada

DEMANDE D'APPUI, D'INFORMATION, D'AVIS ET/OU DE SERVICE SCIENTIFIQUE

Titre de la demande **Petits maquereaux**	# (pour usage interne seul.) GP_01/2017

Personne-ressource à la direction

Nom : André Drapeau	Titre : Conseiller aquacole
Numéro de téléphone : 418-649-6314	Courriel : andre.drapeau@dfo-mpo.gc.ca

Direction générale, direction ou groupe qui présente la demande

Direction générale/Direction/Groupe

- ☒ Gestion des pêches et de l'aquaculture
- ☐ Gestion des écosystèmes
- ☐ Politiques
- ☐ Sciences
- ☐ Secteur Gaspésie-Bas-St-Laurent
- ☐ Secteur Îles-de-la-Madeleine
- ☐ Secteur Côte-Nord
- ☐ Secteur Terre-Neuve
- ☐ Garde Côtière canadienne (GCC)
- ☐ Autre (préciser) :

Détails sur la demande

Quelle est la question nécessitant des informations scientifiques ou un avis scientifique ?
S.v.p., fournir une question claire, et au besoin, un énoncé descriptif.

L'industrie de la pêche au maquereau nous rapporte qu'elle capture beaucoup de poisson sous la taille légale. Selon la réglementation, un pêcheur lors d'un voyage de pêche ne peut avoir en sa possession une quantité supérieure à 10% de maquereau sous la taille légale. Toutefois, on nous rapporte que des taux de débarquement allant jusqu'à 90% de poissons sous la taille légale. Les maquereaux capturés à l'aide d'hameçons dans un contexte de pêche commerciale font en sorte que la mâchoire des poissons se déchire lorsque les poissons sont embarqués à bord des bateaux. Nous n'avons toutefois aucune données/information sur le taux de survie suite à la remise à l'eau, mais de vue réglementaire, le pêcheur se doit de remettre à l'eau toutes prises sous la taille légale.

Justification de la demande d'appui ou d'avis : *Cette demande permet d'adresser quelle(s) priorité(s) du MPO (régional, national et/ou ministériel) ou du gouvernement du Canada?*

- Conservation et pêches durables.

- L'approvisionnement en l'appât (i.e. maquereau) et la gestion de celle-ci est lié à l'accréditation MSC des homardiers.

Cette demande aidera-t-elle le MPO à passer à une approche de gestion écosystémique? Par exemple, cette demande est-elle en lien avec les objectifs nationaux obligatoires de préserver la biodiversité, la productivité ou l'habitat, ou avec des objectifs écosystémiques régionaux plus précis (s'il y en a)? Y a-t-il des considérations précises relativement à l'écosystème qui devraient être prises en compte?

- ☐ Oui — *Si oui, svp précisez*
- ☒ Non

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Priorité accordée à cette demande ? *SVP, répartir équitablement l'ensemble de vos demandes soumises (par direction et/ou secteur) entre Haute, Moyenne et Basse priorités*

Haute ☒ Moyenne ☐ Basse ☐

INFORMATION ADDITIONNELLE (SVP, être le plus concis possible)

À votre connaissance, est-ce que d'autres secteurs font une requête pour un enjeu similaire au vôtre? Si oui, pouvez-vous présenter une requête unifiée?

Quel appui / participation attendez-vous du Secteur des sciences?

- ☐ Avis officiel du Secrétariat canadien des consultations scientifiques
- ☐ Participation à un groupe de travail/comité/réunion
- ☒ Conseil expert
- ☒ Information scientifique
- ☐ Autres, précisez

Votre demande est-elle nécessaire pour répondre à des exigences légales ou réglementaires?

- ☒ Oui — *Cette modification pourrait apporter des modifications réglementaires*
- ☐ Non

Est-ce que votre demande est d'intérêt pour le public, les médias et/ou le gouvernement (autre que le MPO) ou a-t-elle des implications aux niveaux local, régional, national ou international?

- ☐ Oui
- ☒ Non

Votre demande est-elle nécessaire pour répondre à des engagements internationaux?

- ☐ Oui
- ☒ Non

Détails administratifs

Date à laquelle une réponse ou une action est requise

Date requise (jj/mm/aaaa) : Hiver 2017

Justification de cette date : Possiblement entamer discussion lors du prochain comité consultatif

Source de financement :

Avez-vous des fonds pour couvrir les coûts additionnels associés à cette demande (ex: travaux de terrain, analyse spéciale, frais de réunion, de traduction)?

- ☐ Oui
- ☒ Non

Approbation par la direction qui fait la demande

Date d'approbation par la directrice (ou de l'autorité déléguée) (jj/mm/aaaa) :

Nom de la directrice (ou de l'autorité déléguée) : **Maryse Lemire**

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Date de la demande (jj/mm/aaaa) :

Tous les formulaires approuvés doivent être soumis au coordonnateur du Centre des avis scientifiques à l'adresse suivante : Charley.cyr@dfo-mpo.gc.ca

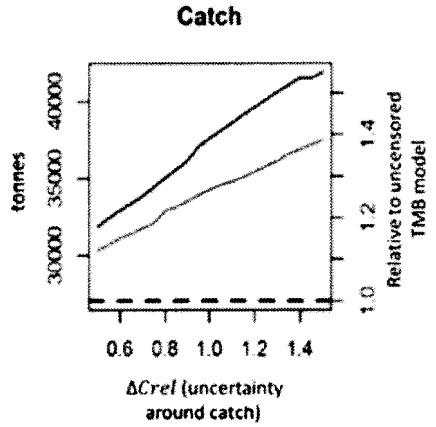
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Marentette, Julie

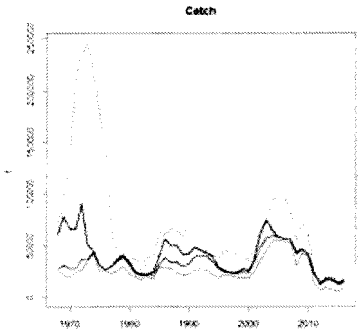
From: Marentette, Julie
Sent: March-15-17 12:37 PM
To: Doniol-Valcroze, Thomas
Subject: RE: Request for Review: Mackerel Briefing Materials (March 15 by noon)

Hi Thomas,

Quick question – I had understood that the reason we don't want the upper limit in the model to go up and up forever is because as you raise the upper limit, total catch (over the whole time series?) increases.



Is this just because certain areas in the model are very sensitive to the UL, even though the general pattern and recent decline is fairly robust?



Best regards,

Julie Marentette, Ph.D.

Science Advisor, Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Julie.Marentette@dfo-mpo.gc.ca /Tel: 613-943-2098

Conseillère scientifique, Sciences des populations halieutiques
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Document Released Under the Access to Information Act / Document divulgué en vertu de la Loi sur l'accès à l'information.
s.21(1)(b)

From: Doniol-Valcroze, Thomas
Sent: March-15-17 11:08 AM
To: Marentette, Julie
Cc: Castonguay, Martin
Subject: RE: Request for Review: Mackerel Briefing Materials (March 15 by noon)

Julie,

This is an excellent summary of the stock assessment, with very clear explanations, and there are no major issues or inaccuracies. I put a couple of comments or suggestions for clarification in the text.

As for the slides:
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4. When do you hope to have the SAR ready? I'm likely to be asked this.

Probably by the end of the next week.

Hope this helps.
Thomas

De : Marentette, Julie
Envoyé : 14 mars 2017 17:53
À : Doniol-Valcroze, Thomas
Objet : Request for Review: Mackerel Briefing Materials (March 15 by noon)
Importance : Haute

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Cited "images" are found in TIF A0279577

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Marentette, Julie

From: Doniol-Valcroze, Thomas
Sent: March-15-17 12:55 PM
To: Marentette, Julie
Subject: RE:Request for Review: Mackerel Briefing Materials (March 15 by noon)
Attachments: image001.png; image002.jpg

yes, most but not all of the time series is robust to increasing the upper limit.
what you see on that plot is catches averaged across the entire time series, so they increase because the mean is influenced by some periods more than others (those that do go up with the increasing ceiling)

De : Marentette, Julie
Envoyé : mercredi 15 mars 2017 12:37
À : Doniol-Valcroze, Thomas
Objet : RE: Request for Review: Mackerel Briefing Materials (March 15 by noon)

Hi Thomas,

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[cid:image001.png@01D29D88.DBE7CB80]

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[cid:image002.jpg@01D29D88.DBE7CB80]

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Science Advisor, Fish Population Science Fisheries and Oceans Canada / Government of Canada Julie.Marentette@dfo-mpo.gc.ca<mailto:Julie.Marentette@dfo-mpo.gc.ca> /Tel: 613-943-2098 Conseillère scientifique, Sciences des populations halieutiques Pêches et Océans Canada / Gouvernement du Canada Julie.Marentette@dfo-mpo.gc.ca<mailto:Julie.Marentette@dfo-mpo.gc.ca> /Tél: 613-943-2098

From: Doniol-Valcroze, Thomas
Sent: March-15-17 11:08 AM
To: Marentette, Julie
Cc: Castonguay, Martin
Subject: RE: Request for Review: Mackerel Briefing Materials (March 15 by noon)

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Thomas

De : Marentette, Julie
Envoyé : 14 mars 2017 17:53
À : Doniol-Valcroze, Thomas
Objet : Request for Review: Mackerel Briefing Materials (March 15 by noon) Importance : Haute

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Marentette, Julie

From: Doniol-Valcroze, Thomas
Sent: March-15-17 5:48 PM
To: Marentette, Julie
Cc: Castonguay, Martin
Subject: RE: Request for Review: Mackerel Briefing Materials (March 15 by noon)

Julie,

I am not sure what is planned next for these analyses. It is my hope indeed that we eventually get a proportion of Canadian fish in the US catches, so that we can input these in our model – and an eventual joint 3-6 model. But I don't know how close we are to getting this. Maybe Martin knows more.

Thomas

De : Marentette, Julie
Envoyé : 15 mars 2017 12:54
À : Doniol-Valcroze, Thomas
Cc : Castonguay, Martin
Objet : RE: Request for Review: Mackerel Briefing Materials (March 15 by noon)

Hi Thomas and Martin,

Thanks again for your review of the briefing documents.

I had a question about the preliminary otolith microchem data [redacted] – the results [redacted] are certainly preliminary and will be followed by more analyses – based on the 3-year-old fish, how much of a concern is it to further understand exactly how much of the US landings are Northern contingent fish?

Best regards,

Julie Marentette, Ph.D.

Science Advisor, Fish Population Science
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Julie.Marentette@dfo-mpo.gc.ca /Tel: 613-943-2098

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Sent: March-15-17 11:08 AM
To: Marentette, Julie
Cc: Castonguay, Martin
Subject: RE: Request for Review: Mackerel Briefing Materials (March 15 by noon)

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Envoyé : 14 mars 2017 17:53
À : Doniol-Valcroze, Thomas
Objet : Request for Review: Mackerel Briefing Materials (March 15 by noon)
Importance : Haute

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Summary of Atlantic Mackerel Assessment Meeting

March 8-9, 2017

Mont Joli, QC

Overview

- The Atlantic Mackerel stock remains in the **critical zone**
- Estimated SSB is currently around **40 000 t**. The calculated Limit Reference Point (LRP) is **103 000** t. The LRP will be sensitive to changes in stock modelling, so it may change slightly at the 2019 assessment.
- The modelled decline in SSB over time is **robust to reasonable changes in the upper limit** of the newly-developed censored Statistical Catch-at-age model (the two upper limits tested were a) derived from the online survey ~~data~~ and literature review estimating bait/recreational use and discard mortality, as presented in the January framework meeting and b) all of the above with the addition of 50% of American/foreign declared catches in each year)
- Canadian commercial landings declined from 54,621 t in 2005 to a low of 4,143 t in 2015, but in 2016 the TAC of 8,000 t was reached. American landings have similarly declined over the same time period (2005-present). 2016 commercial catch data were **preliminary** and therefore of limited value to the stock assessment.

[redacted]

- The Science Advice will emphasize that the **projected TAC scenarios will use total landings, not just commercial TAC**. The proportion of total catch that is undeclared has in the past ranged from an estimated **150 to 200%.**
- **Some** [redacted] **evidence of a stronger 2015 recruitment** although industry is reporting lots of small fish. Science evidence is weak because a) the fishery closed while most reported catches occurred in Division 3KL, where there are fewer small fish; b) 2016 catch data are still preliminary, and c) the 2015 year class isn't spawning yet, but may show up in the 2017 egg survey data and more of the 2017 commercial catches.
- **Logistical constraints preclude the setting of early triggers for stock assessment** (e.g., commercial sampling data does not become available to calibrate the egg survey data into an SSB index until February of the next year, giving less than one month's notice)

[redacted]

Comment [TDV1]: "Survey data" could be ambiguous because of the egg survey, so I suggest adding "online"

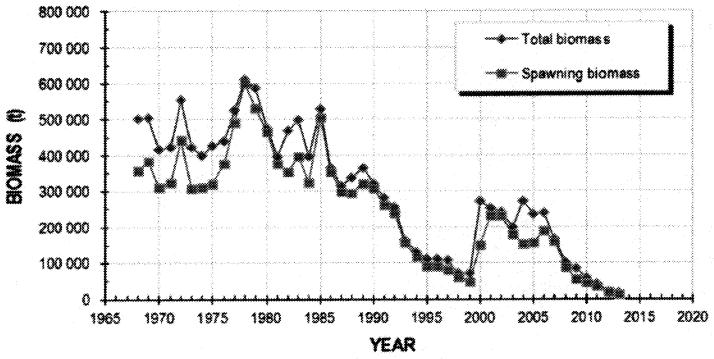
Comment [TDV2]: That's not phrased right. Total catches are 150 to 200% of declared catches – or – undeclared catches represent 50 to 100% of declared catches.

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Background: 2014 Stock Assessment

Atlantic Mackerel was last assessed in 2014 (CSAS SAR 2014/030). A sequential population analysis (SPA) model was used in the assessment, where declared commercial landings assumed to represent total catch data.

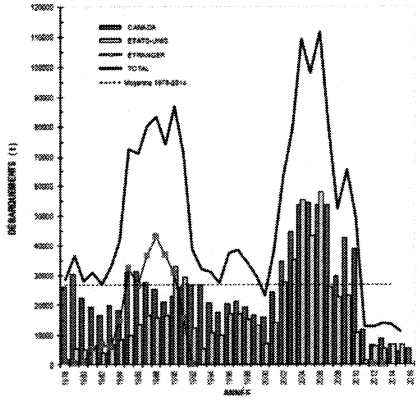
In recent years, landings and Total Allowable Catch decreased, and stock biomass were estimated to be in decline, with the stock at lowest historical levels in 2013 (see below).



Egg survey abundance far below historic levels, and a contracted age structure of landed Mackerel (i.e., no old fish) also indicated this stock was subjected to high levels of fishing mortality.

Three candidate Limit Reference Points were identified for Atlantic Mackerel (CSAS RD 2014/066). As the stock status was estimated to be below all three, the stock was designated as being in the **critical zone** under the Precautionary Approach framework.

2017: New Data

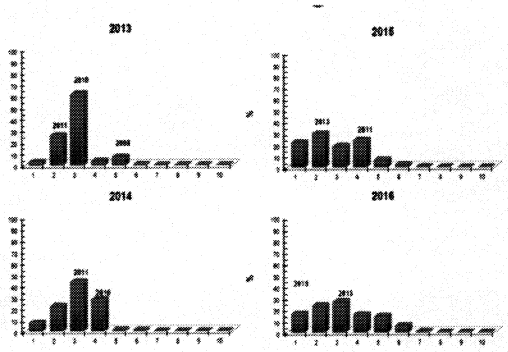


Updated commercial catch data do not indicate significant differences from the 2014 stock assessment. Landings in both Canada and the United States remain low (although 2016 data are still being reconciled; figure on left).

In 2016 the fishery closed early (October) as the TAC of 8,000 t had been achieved. While the data are incomplete, particularly regional breakdowns of landings, most of the 2016 landings appear to have been in the 3KL subarea (NL).

Comment [TDV3]: 3K declared about 2,500 tons, so while it's much more than in past years, it's probably not "most" of the 8,000 TAC. It might be better to say "a significant (and higher than usual) proportion of the landings" or something like that.

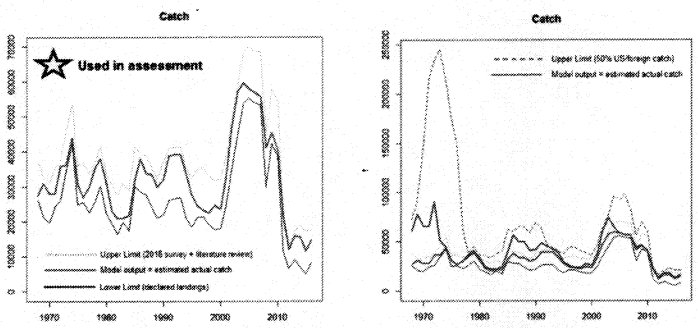
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Atlantic Mackerel age structure has shown a slight expansion since 2013 (left).

The Mackerel abundance index derived from the egg survey has increased slightly since ~~a~~ its historical low in 2012, but the index remains far below historic levels.

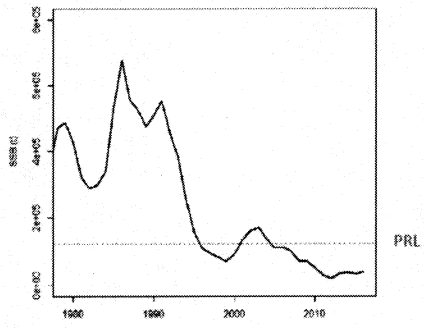
2017: New Assessment Model to Account for Uncertainty



The censored SCA model shows a pattern of recent strong decline in estimated total catch that is robust to two different upper limits (derived from a 2016 survey of fishermen recreational and bait use, a literature survey, and with/without 50% of US/foreign catches, on top of a lower limit that represents declared catch only). Although continually raising the upper limit does increase estimated total catch over ~~the entire~~ parts of the time series, this is because the model will use extra space to help explain rapid changes in the stock, such as that produced by the arrival of the strong 1999 year class and its subsequent disappearance.

Comment [TDV4]: There are quite a few parts of the time series where the blue line does not increase from the red line

2017: Current Stock Status



The Atlantic Mackerel Stock remains in the **critical zone**. Estimated spawning stock biomass (SSB) is currently 40,000 t, and the LRP/PRL (40% Bmsy) is 103,000 t. The estimated current SSB from the censored SCA model is approximately 5 times larger than that predicted from the SPA model used in the 2014 assessment (< 8,000 t). The improvement in credibility is due to the capacity of the censored SCA model to work with uncertainty around true catch levels.

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2017: Projections

The final Science Advisory Report will contain a table with projected F/TAC scenarios, including the probability that the stock will exceed the LRP in two years (the length of the assessment cycle).

2017: Industry Perspective

- Some industry members present at the assessment meeting indicated they felt the stock was in better shape than what was presented
- They believe the stock is cyclical and that movements of fish explain changes in perceived abundance from year to year

Comment [TDV5]: suggestion

- There have been numerous reports of small Mackerel in multiple regions, but these fish do not yet appear in commercial catch sampling data, nor are any strong year classes yet old enough to spawn and contribute to any increases in the egg survey data
- A potentially stronger than average year class from 2015 may be detected in the egg survey to be conducted in 2017

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Summary of Mackerel Framework Meeting

January 18-20, 2017

Mont Joli, QC

Overview of 2017 Framework Consensus

To be used in March 2017 Assessment

- An online survey of fishermen and a literature review was conducted in 2016 to get an estimate of undeclared Atlantic Mackerel recreational and bait catches.
- In order to address uncertainty around undeclared catch, the 2017 stock assessment will use a censored Statistical Catch-at-Age model, where the model finds the best-fit line between two limits. The Lower Limit (LL) is defined by the declared catch, and the Upper Limit (UL) is derived from the online survey/literature review estimating undeclared catch (Figure 1, green model). It is **preferable to have informed limits**, as raising the UL results in increased predicted total landings (declared and undeclared).

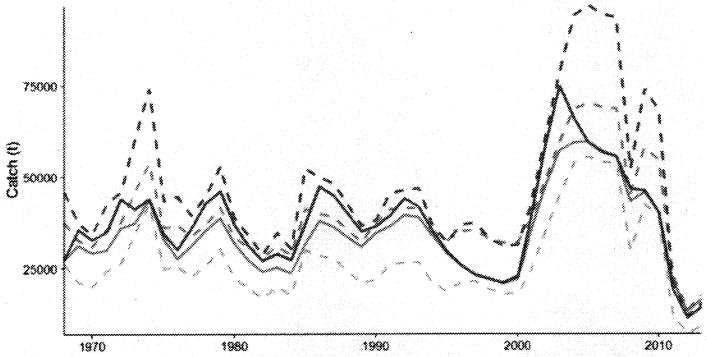


Figure 1 (taken from Doniol-Valcroze et al., 2017 working paper). This shows two variations of the censored model.
The grey dashed line represents declared catches (known data), which form the Lower Limit (LL) of both models.
The pink dashed line is an Upper Limit (UL) where the total (declared+undeclared) catch is arbitrarily determined to be 1.75 x the declared catches. This value reflects results of the 2016 online survey.
The pink solid line represents the best-fitting model between the grey and pink dashed lines.
The green dashed line is an UL that was derived (informed) from the 2016 literature review of bait needs.
The green solid line represents the best-fitting model between the grey and green dashed lines. This is the model that will be used at the 2017 assessment.

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Note that the modelled catches (pink and green solid lines) "touch" the corresponding UL (pink and green dashed lines) in several locations in both censored models, which suggests that the UL is an underestimate of the true catch.

- The model will assume a Beverton-Holt stock-recruitment relationship, including some environmental variation. However, the stock-recruitment relationship is weak, and in this case, the choice of stock-recruitment relationship type (i.e., Ricker, etc.) does not affect the fit of the model very much.
- A couple of agreed-upon changes will be made to the model before the assessment: (1) Natural mortality will be age-specific (higher mortality for younger fish, as was done in the 2014 model) but will be fixed across years. (2) Full recruitment to the fishery will be fixed at age 4-5 based on knowledge of the fish biology and the gear (the best-fitting models predicted that fish don't fully recruit until age 8, but this was not seen as credible).

Important Notes

- Primary concern with this stock remains the **uncertainty surrounding the extent of non-reported catches**. Recreational and bait fisheries are as important as the commercial fisheries in some areas, and there are regional differences in how this is reported. There is also the issue that some fish enter the US fishery areas (NAFO 5 and 6) resulting in an unknown, varying proportion of American landings being from the Canadian stock each year.
- An online survey and literature review was performed in 2016 to attempt to quantify undeclared catch of mackerel to produce an Upper Limit (UL) for the new censored model approach. It is likely that **this survey is still underestimating** total landings based on the following:
    a) input from industry at the framework meeting (fishermen's associations not contacted, anecdotes from industry members)
    b) the modeled historical catches press up against the UL at points (seen in Figure 1) suggesting that the UL may be too low; however, if you raise the UL, **total predicted catch continues to increase as UL increases** (Figure 2), so knowing what to set as UL does matter (and thus the UL can't be infinitely large and it must be constrained).

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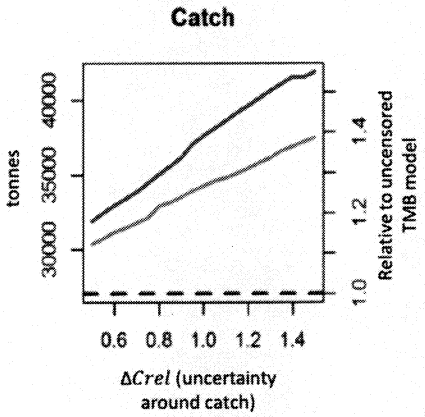


Figure 2 (adapted from Doniol-Valcroze et al., 2017 working paper). The models, whether undeclared catches are estimated by the online survey data (green line) or a constant value of 1.75x (pink line), continue to increase estimates of predicted catch as uncertainty around the catch increases. The uncensored model using only declared catch is represented by a dashed black line.

- Neither the new (2017) or the old (2014) model can adequately model the peaks in the egg survey (i.e., the years in where egg quantity was extremely high). Predicted SSB is always below the egg survey-based index for those years when egg quantity was high. It is possible that the **egg survey samples may be biased**, taken behind the boat in some years, and beside the boat in other years. If taken behind the boat, the egg survey would have been affected by boat turbulence.

Comparison with 2014 Stock Assessment

A major problem with the older assessment, noted at the meeting and described in the SAR (CSAS 2014/030), was that, **after adjusting for the observed retrospective patterns**, the abundance of Mackerel in 2014-2015 was predicted to be only 7532 to 9045 tonnes, less than the annual TAC of 8000 tonnes. The previous advice was based on the low historical F observed during a period of stability (0.087 from 1968 to 1992); when this low F was applied to the low SSB estimate for 2014-2015, the resulting TAC was extremely low. These issues are partially alleviated by the new model, which doesn't require retrospective adjustment.

001129

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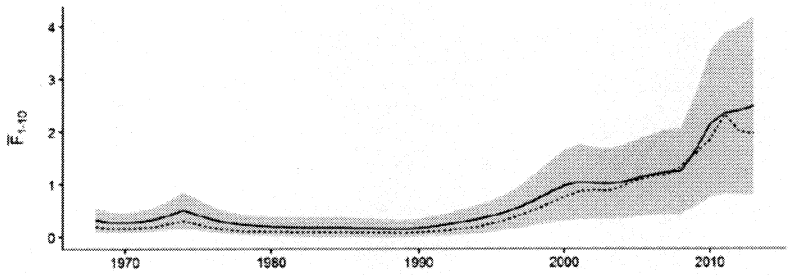


Figure 3 (taken from Doniol-Valcroze et al., 2017 working paper). The model predicts an annual mean historical F (average taken over ages 1 to 10) that increases over time (dotted line). The solid line and surrounding gray areas represents the results of 400 simulations (mean and confidence interval).

The current model estimates that in 2013, stock SSB (red line) **was greater than the estimate from the 2014 model** (black line, see Figure 4 below). Increasing the UL for the censored approach allows the model to estimate a higher catch, which also has the effect of increasing the biomass estimates. This also suggests that if the UL is an underestimate, true stock biomass could be even larger.

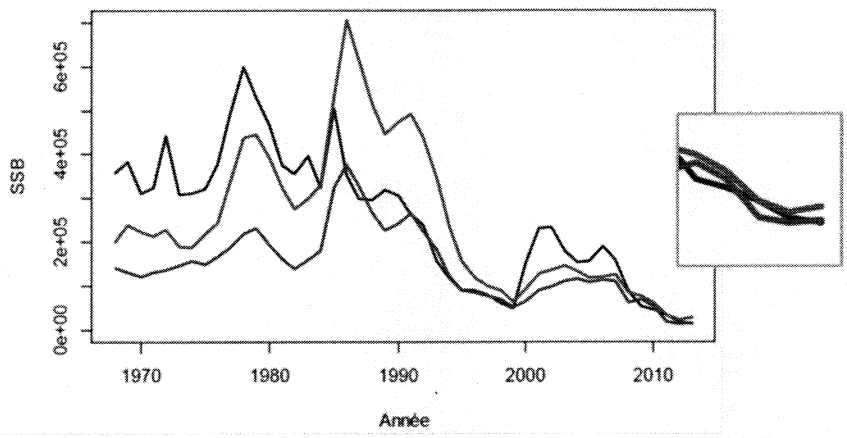


Figure 4 (adapted from Doniol-Valcroze et al., 2017 working paper).
The black line is the spawning stock biomass as predicted in the 2014 assessment. It assumed that declared catches were the only catches.
The blue line is the biomass from the new model, but assuming that declared catches are the only catches.
The red line represents the accepted model, where catch was allowed to vary using censor limits derived from the 2016 online survey and literature review .*

*Please note that this model assumed a fixed M at 0.2 for all ages, and full recruitment only at age 8; these assumptions will change in the March assessment.

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Many fundamental aspects of the old and new models differ, such as process error and decisions about other error structures. These issues cannot be perfectly aligned and so direct comparisons of the models are complicated by these inherent incompatibilities.

TOPIC	NEW APPROACH	OLD APPROACH
Model	• Censored SCA model allows parameters to vary such that true catch may vary from alower limit using declared catches and an upper limit which is an estimate of all catches including bait and recreational. • Tuned with egg survey data (1968-2013). • The most direct comparison to the old approach would be the uncensored version of the model that assumed total catch = declared catch only.	• Combined VPA/SCA approach. • Tuned with shorter time series for egg survey data (1996-2013).
Natural mortality (M)	• Currently fixed at 0.2. • In March it will be age-specific (same as 2014) but fixed across years.	• Age-specific M varies across years.
Limit Reference Point	• 40% B_{msy}	
Retrospective Pattern	• little retrospective pattern	• Medium retrospective pattern that required adjustment

Considerations for EFM

Assessment method: Censored Statistical Catch-at-Age model with limits informed by the literature and online survey conducted in 2016.

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Mechanism of accounting for Uncertainty: The use of upper and lower limits in the censored model, which allows "actual" catch in each year to vary between declared landings, and an upper limit informed by the results of the online survey/literature review to estimate undeclared catch.
U.S. Involvement: NOAA Stock Assessment biologist [redacted] attended, and will attend the March assessment meeting also.
How harvest advice will be provided: The stock biomass projections will be performed under a range of possible F scenarios, to be performed and presented in March. (Risk-based approach)
2016 stock outlook relative to 2014: This information will be presented in March. The Framework meeting used the data available up to 2013 only, to make direct model comparisons between the new approach and the2014 assessment.

Additional Issues

- Industry members posed questions about the **Oceans Protection Program**, and how it can be used to help with mackerel monitoring

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Marentette, Julie

From: Castonguay, Martin
Sent: March-15-17 7:34 PM
To: Doniol-Valcroze, Thomas; Marentette, Julie
Subject: RE: Mackerel - Questions following Director Briefing

The 2015 and 2016 White and Notre-Dame Bays surveys form part of a M.Sc. student thesis at MUN, so the negative results on mackerel spawning will be in her thesis and paper (she redirected her thesis to capelin spawning dynamics). But we will also write a paragraph in the SAR about these results and we simply cite the SAR.

Martin

De : Doniol-Valcroze, Thomas
Envoyé : 15 mars 2017 18:43
À : Marentette, Julie; Castonguay, Martin
Objet : RE: Mackerel - Questions following Director Briefing

Julie,

1. I am not sure what plans were but it is a good idea to make those results "citable". I will talk to Martin about it.
2. Table 13 in Res doc 2014/079 says that the model estimate for SSB in 2013 was 12,547 t. It is only by applying the correction factor due to the retrospective factor that the SSB falls below 8,000, although to be honest I have not been able to get the exact number from the document. Another way to look at it would be to look at the projections for "early 2014" in tables 14 and 15. Without the correction factor, it's 9,586 and with the correction factor it's 3,949 t.
3 and 4. Yes we'll try to make a Kobe plot and yes we'll be providing the table as soon as possible. Although to be honest, I have spent the entire week so far updating people and answering questions instead of actually working on the SAR, so at this point it will just be ready when it's ready...

Cheers,
Thomas

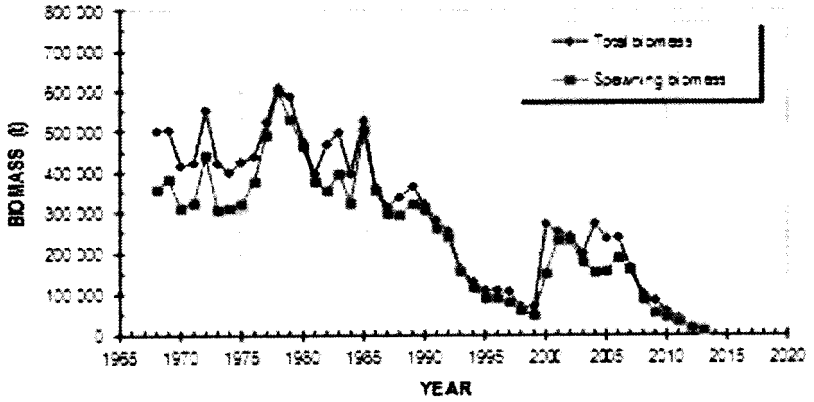
De : Marentette, Julie
Envoyé : 15 mars 2017 17:59
À : Doniol-Valcroze, Thomas; Castonguay, Martin
Objet : Mackerel - Questions following Director Briefing

Hi Thomas and Martin,

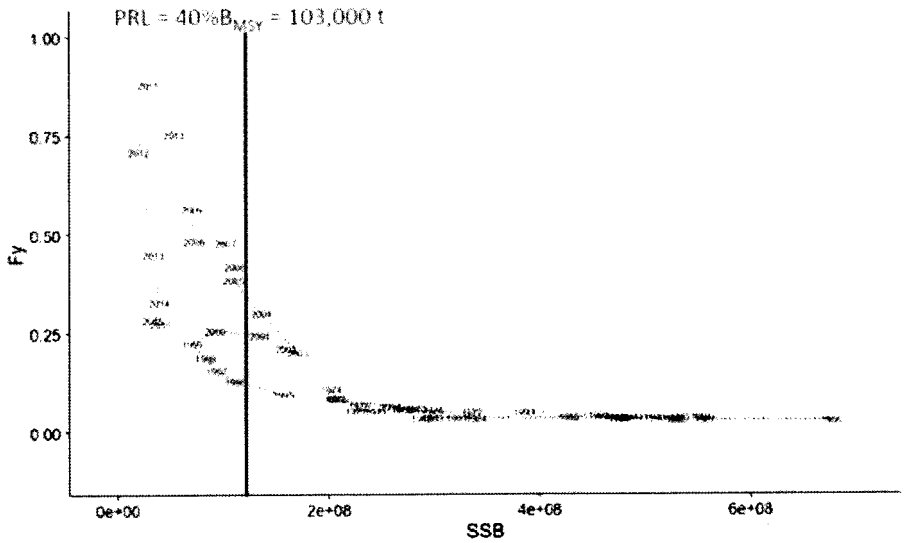
Following a briefing with my Director we have the following questions:

1. Has there been, or is there any interest in publishing the null findings of the 2015-2016 surveys that sought additional spawning sites? (Grey literature or peer-review, something we can point to)
2. There was interest in getting a precise number for my slide saying that SSB was "<8000 t in 2013" in the last assessment; I do not see in SAR 2014/030 where this is given, it is probably implicit in the graph below but I was wondering if you were able to determine the right number? We were thinking it was around 3500 but are not sure.

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3. There is a tendency for folks to try and read this graph (below) as a proxy Kobe plot, when it is not – a) is it possible to get a copy of the graph with Ftotal on the X axis and not Fy, and b) what is the F corresponding to the LRP?



4. **Would you be able to share the table of projections** (F/TAC scenarios, and % probability of exceeding LRP) with us **before the SAR is complete**? This will be key for briefing the DG next Tuesday.

Best regards,

Julie Marentette, Ph.D.

Science Advisor, Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Julie.Marentette@dfo-mpo.gc.ca /Tel: 613-943-2098

Conseillère scientifique, Sciences des populations halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Julie.Marentette@dfo-mpo.gc.ca /Tél: 613-943-2098

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Cormier, Mélanie

De: [redacted]
Envoyé: 15 mars 2017 13:36
À: Rivierre, Antoine
Objet: Re: mackerael

HI here is some numbers that we talk about last week in the QUEBEC region the lobster fisherman use about 17 500 lbs per season and the fisherman in northland NB use about 20 000 lbs per season the traditional crab fisherman in the zone 12 last year use about 15 000 lbs of bait each so whit teos numbers find out how mayne fishman there are in the GULF including the nontraditional in the crab fishery the ground fish and the tuna there is about 28% of the fall hareng that it use for bait the rest is mackerel if you have any question you can call me at [redacted] thank you

---

From: Rivierre, Antoine <Antoine.Rivierre@dfo-mpo.gc.ca>
Sent: March 15, 2017 11:05:06 AM
To: [redacted]
Subject: RE: mackerael

J'ai envoyé votre nom à l'administration centrale à Ottawa qui organise la réunion à Halifax le 30 mars.
Vous devriez recevoir l'invitation dans les prochaines heures (prochains jours)
Tenez-moi au courant si vous n'avez pas eu de nouvelle d'ici la fin de la semaine !

Antoine

De : [redacted]
Envoyé : 15 mars 2017 09:17
À : Rivierre, Antoine
Objet : mackerael

Hi can you give me the contacts for the meeting in HALIFAX so i can be at the table thanks

s.19(1)

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Cormier, Mélanie

De: Cawthray, Jenness
Envoyé: 15 mars 2017 11:01
À: Rivierre, Antoine
Objet: RE: mackerel

O.K. So that is the organization name. [redacted]

I will have our admin send him the invite.

From: Rivierre, Antoine
Sent: March-15-17 10:59 AM
To: Cawthray, Jenness
Subject: RE: mackerel

He represents "Transformateur du sud de la Gaspésie", he is not a fisher.

De : Cawthray, Jenness
Envoyé : 15 mars 2017 10:55
À : Rivierre, Antoine
Objet : RE: mackerel

So is he with an organization or a fisher? I don't recall who he was? Sorry.

From: Rivierre, Antoine
Sent: March-15-17 10:44 AM
To: Cawthray, Jenness
Subject: RE: mackerel

[redacted] (transformateur du sud de la Gaspésie) [redacted]

Will you send him the invitation and the aggenda ?

Thank you

Antoine

De : Cawthray, Jenness
Envoyé : 15 mars 2017 10:40
À : Rivierre, Antoine
Objet : RE: mackerel

Can you send me the contact details for this person?

From: Rivierre, Antoine
Sent: March-15-17 10:06 AM
To: Cawthray, Jenness
Subject: TR: mackerael

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s.19(1)

Hello Jenness
I received this request [redacted] to assist at AMAC.
Is it possible for you to add his name to the distribution liste ?
If you remember, he was present the first day of the RAP last week in Mont-Joli.

Thanks

Antoine

De : [redacted]
Envoyé : 15 mars 2017 09:17
À : Rivierre, Antoine
Objet : mackerael

Hi can you give me the contacts for the meeting in HALIFAX so i can be at the table thanks

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Thomas, Tashina

From: Lemay, Gaëlle
Sent: March-15-17 3:20 PM
To: Belliveau, Ron; Mallet, Pierre; Lapierre, Daniel; Smith, Jennifer R (Gulf); Hachey, Carole M; Thomas, Tashina; Comeau, Sandra J
Subject: Number of mackerel trips by Province, Port, Month and day

Good afternoon,

As discussed at the DMP working group, here are a couple of tables showing the distribution of mackerel trips for the past 7 years. It was easier on the eyes to show the data this way then presenting it by Province, port, month and day. The information below should give the DMP companies some idea of the workload associated to 25% DMP on mackerel.

Please note:

- the 2015 and 2016 data is still preliminary (more so in 2016 as you'll see below).
- supplementary B's (estimates of non-reported landings) are not included in the tables below

1. Mackerel Landings by Province and months.
   This table shows that the bulk of landings occur in August and September in NB, July to September for NS and May through October in PEI.

Mackerel Landings reported by Province by month, Gulf Region

Source: Gulf Region Statistics Database, Strategic Services, Gulf Region

Province landed	Month landed	2010	2011	2012	2013	2014	2015*	2016*
NB	5	36		7				
	6	210	147	47	29	2	1	
	7	10	21	28	9	4	5	
	8	215	182	140	132	113	123	1
	9	181	63	38	106	146	40	6
	10	6	2		8	38	9	2
	11						6	
NS	6		6	2		1		
	7	24	7	21	38	5	128	76
	8				4	46	181	53
	9	118		1	8	23		68
	10	76			13		2	6
	11	78	1				13	
	12						3	
PEI	5	297	5	480	22	16		51
	6	1070	882	142	282	326	241	402
	7	23	34	99	91	79	114	
	8	402	562	405	219	168	223	84
	9	327	436	236	203	107	116	132
	10	52	21	5	8	9	10	23
	11	4	3	1		2		
	12	2						

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s.19(1)

s.20(1)(b)

* 2015 and 2016 data is preliminary and subject to change without notice

2. Mackerel Landings by Province and port of landing
This table shows that landings take place in 9-15 ports in NB, 3-6 ports in NS and 20-24 ports in PEI.

Mackerel Landings reported by Province by port, Gulf Region

Source: Gulf Region Statistics Database, Strategic Services, Gulf Region

Province Landed	Place Landed	Community Description	2010	2011	2012	2013	2014	201
NB			4	62	16	7	14	
			5	2	26	4	2	
							3	
			168	69	74	68	115	
			5	18	3	1		
						1		
			83	33				
			17					
			27	26	21	67	68	
			4					
				6	5			
			54					
							6	
			21	3	9	62	33	
			16	29	35	31	41	
			79	81	49	35	17	
			167	69	15	5	1	
					3	1		
			7	10				
							1	
			1	7		1		
					4	1		
							2	
NS			121			1	3	
			131	7	18	38	3	1
			4		3			
							1	
			2					
			11					
			27	1		24	68	1
				1				
					1			
				1				
				4				
					2			
PEI			26	50				

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[redacted]	306	120	117	7	11	
	62	29		7		
	20	11	4	31	8	
		7	3	1	45	
	40	30	30	25		
	1					
			1			
					2	
	11	1	7	20	8	
	1	3				
	1		28			
	104	103	117	73	79	1
	42	141	172		23	
	29	12	15		17	
	20	2				
		1				
	42	45	6	9	33	
	911	877	464	336	246	1
	3					
	213	182	119	54	16	
	1	2	1		1	
		1				
	29	34	40	22	20	
	172	171	143	164	152	1
	126	100	93	71	46	
	1	9	8			
	14	12		5		
	2					

* 2015 and 2016 data is preliminary and subject to change without notice

If you feel additional data should be made available, please let me know asap so I can put it together before the meeting.

Thanks,

Gaëlle Lemay

A/Regional Statistician, Statistics Division, Strategic Services, Gulf Region
Fisheries and Oceans Canada/Government of Canada
gaelle.lemay@dfo-mpo.gc.ca/Tel: 506-851-7822/Fax: 506-851-7732

Statisticienne régionale p.i., Division des statistiques, Services Stratégiques, Région du Golfe
Pêches et Océans Canada/Gouvernement du Canada
gaelle.lemay@dfo-mpo.gc.ca /Tél: 506-851-7822/Télécopieur: 506-851-7732

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Si vous avez reçu cette communication par erreur, veuillez en aviser l'expéditeur immédiatement et la supprimer sans l'imprimer, la copier, ou la faire suivre. Merci.

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Docherty, Verna

From: Waters, Christa
Sent: 2017–March-15 8:44 PM
To: Docherty, Verna; Berthier, Jacinta
Subject: FW: Documents
Attachments: stockstatus.pptx

FYI

From: Doniol-Valcroze, Thomas
Sent: Wednesday, March 15, 2017 7:45 PM
To: Waters, Christa
Cc: Castonguay, Martin; Lester, Brian; Docherty, Verna
Subject: RE: Documents

This one?

De : Waters, Christa
Envoyé : 15 mars 2017 18:18
À : Doniol-Valcroze, Thomas
Cc : Castonguay, Martin; Lester, Brian; Docherty, Verna
Objet : RE: Documents

Hello Again,

Hope you have recovered from the RAP. I really am so grateful to have had the opportunity to attend this year.

I have a presentation on Monday to the scotia Fundy roundtable. Would it be possible to get just one slide from you - the biomass output from the model with the LRP. The one showing that we continue to be in the critical zone?

Thanks,

Christa

Christa Waters
Regional Senior Fisheries Management Advisor
Resource Management | Gestion des Pêches
Maritimes Region | Région des Maritimes
Telephone | Téléphone 902-293-6541

From: Waters, Christa
Sent: March 9, 2017 7:37 AM
To: Doniol-Valcroze, Thomas
Cc: Castonguay, Martin; Lester, Brian
Subject: Documents

Hello Tomas,

Document Released Under the Access to Information Act / Document divulgué en vertu de la Loi sur l'accès à l'information.

It was great to meet you in person yesterday. You did a great job presenting. I had a few questions and comments for your consideration.

Are there any documents other that then presentation? The Res Doc? I think we need to review this.

I have noticed at least one mistake in the landings data for 2015. The Trap net fisheries in St. Margaret's Bay are not showing any landings (on slide 27) which does not make any sense, in addition does not match slide 29 or 30.

Could you tell me what data goes into the landings data you have shown? Does bycatch from other fisheries (i.e. groundfish otter trawl) get assessed in the landings? Maybe we will see a separate presentation on bycatch of mackerel in other fisheries?

It would be helpful to see the data presented by region and gear rather than by province. Where the management occurs at the regional level, it is much simpler for Resource Management to consult with our regional industry members if we have the data displayed that way.

Perhaps we will see this today, but you last slide, (78) shows the model output for the mackerel stock. Does this include the landings from 2016? If yes, the total landings? i.e. the 8, 000 plus MT, or the amount that you were able to get (~5k)? How do the landings affect the model output? Are bycatches from other fisheries included? Are there any estimates of error for the points? Or is this taken into account with this new type of model that is predicting undeclared catches?

I apologize if you covered some of this in your presentations yesterday and I missed it.

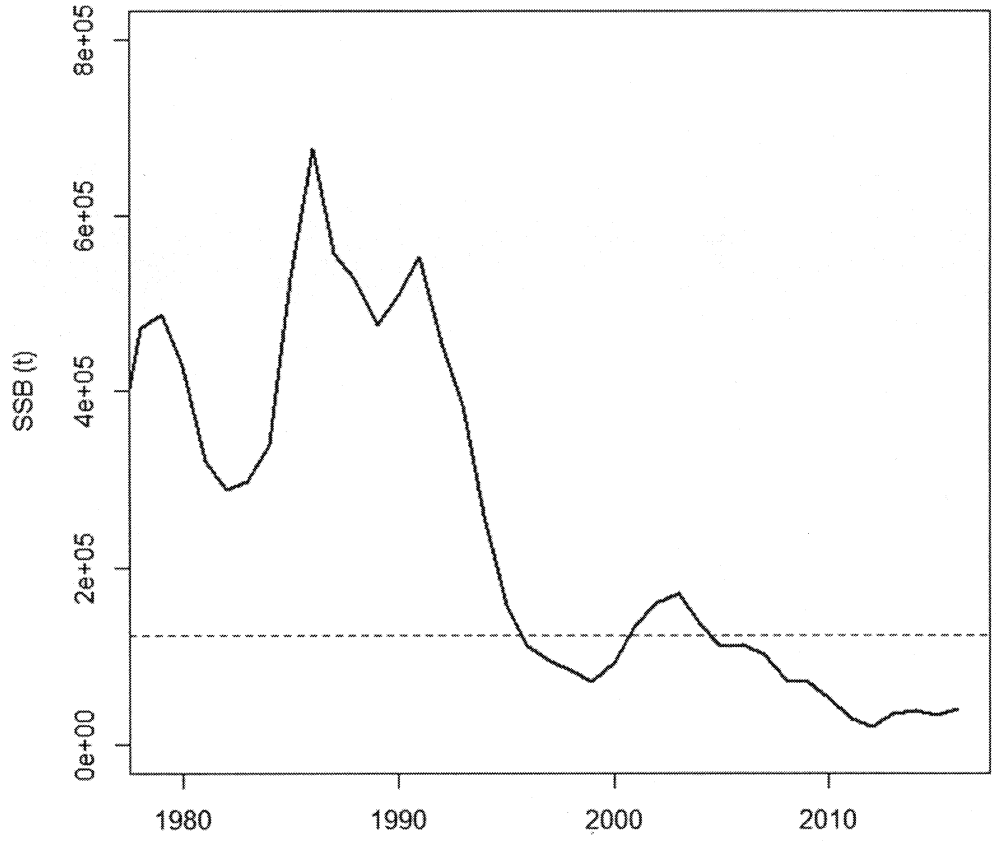
I have to do a presentation to senior management and key industry (every fishery) players on Monday Mar 20th. Would I be able to get a couple of figures for this? I will let you know which ones after today.

Thanks,
Christa

Christa Waters
Regional Senior Fisheries Management Advisor
Resource Management | Gestion des Pêches
Maritimes Region | Région des Maritimes
Fisheries and Oceans Canada | Pêches et Océans Canada
P.O. Box 1006 | C.P. 1006
Dartmouth, NS Canada B2Y 4A2 | Dartmouth, NÉ Canada B2Y 4A2
Christa.Waters@dfo-mpo.gc.ca
Telephone | Téléphone 902-293-6541
Government of Canada | Gouvernement du Canada

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Stock status



PRL = 40%B_{MSY} = 103,000 t

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Docherty, Verna

From: Waters, Christa
Sent: 2017–March-15 7:13 PM
To: Docherty, Verna; Berthier, Jacinta
Subject: Draft mackerel slides - Roundtable

Hello,
Here is the most recent draft. Still some work to do.
C

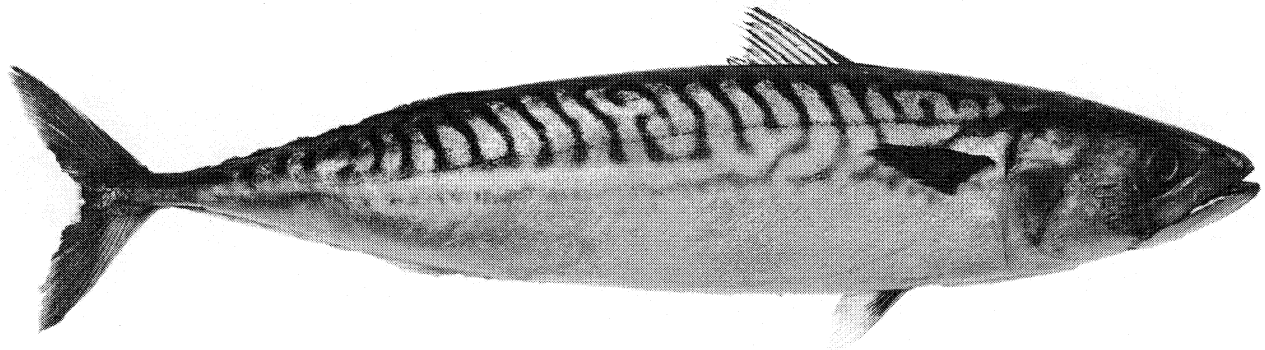
file:\\R:\Fisheries Management\Resource Management\Reference\Species\Pelagic Small - General\Atlantic Mackerel_Roundtable_2017.pptx

Christa Waters
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Atlantic Mackerel

NAFO subareas 3 and 4



Christa Waters
Senior Advisor, Resource Management
Fisheries and Oceans Canada

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Stock Structure

- Atlantic mackerel (*Scomber scombrus* L.) is found in both sides of the North Atlantic, from the Mediterranean to Norway, Iceland and the Faroe Islands in the east and from North Carolina to Newfoundland
- NW Atlantic stock complex – Canada + USA
- Atlantic wide Canadian TAC

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2016 season

- 8,000 mt TAC met and the fishery was shut down in October.
- Final numbers still being tabulated. However, the 8,000 mt TAC was exceeded.
  - Not all gears/fleets shut down (Regulations only have closed times for VB fisheries).

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Science - Regional Advisory Process

NAFO subareas 3 and 4

- A framework assessment was peer reviewed Jan 18-20, 2017
- Full analytical assessment was peer reviewed on March 7-8, 2017.
- Next assessment Spring 2019 (possibility of a Transboundary Resource Assessment Committee (TRAC) assessment 2019/2020).

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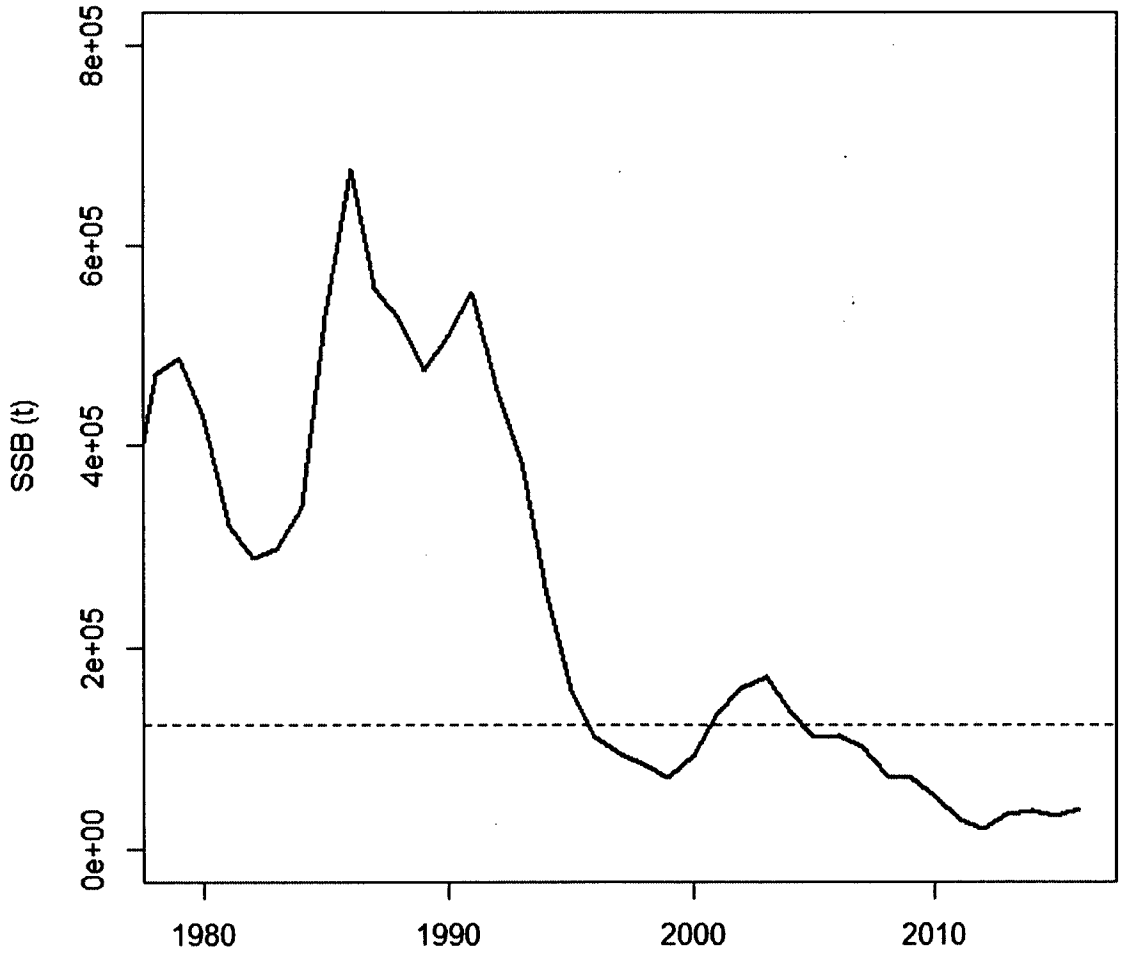
Science Advisory Process 2017

Conclusions

- Stock assessment concluded that the stock status continues to be in the critical zone and rebuilding is necessary.
- Analytical assessment indicates poor recruitment, high fishing mortality and low biomass.
- Sources of uncertainty – unrecorded catches (bait and recreational)
  - New model takes this into account

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Stock Status



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Next Steps

- The SAR will be made available through the CSAS website when finalized.
- Maritime Regional Mackerel Advisory Committee: March 23, 2017
- The Atlantic Mackerel Advisory Committee meeting to seek input on management of the fishery: March 30, 2017

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Regional Advisory Committee

- Science presentation
- Preparing the regional perspective on managing mackerel in our region and Atlantic wide.
- Discuss what our region can contribute to rebuilding (management measures/monitoring requirements).
- Outstanding question on adding hand line to bait licence (how will this contribute to rebuilding or improved data collection).

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Atlantic Mackerel Advisory Committee

- Will discuss development of a rebuilding plan and update of the IFMP
- Management measures for rebuilding the stock focused on TAC and improvement in data collection for monitoring of landings from commercial and bait fisheries
- Progress on regulatory changes to introduce bag limit and open/closed time

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Bait licences

- No formal consultative forum for bait.
- Involves a large number of licence holders over several fisheries.
- Improvements in data collection will be discussed at AMAC.

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Thank You

Questions?

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Management

- FSC
- Commercial / Commercial Communal
- Bait
- Recreational (gillnet and no licence)

Management measures

- The main control is Atlantic wide TAC
- Minimum size
- Limited entry
- Bait - 3 nets

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Recent Stock Structure research

- European mackerel genetically distinct from North American
- Iceland / Greenland stocks originate exclusively from European origin
- Canadian and US stocks do not seem genetically distinct although based on small sample number (new research starting to explore this further)

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Cyr, Charley

De: Cyr, Charley
Envoyé: 16 mars 2017 11:26
À: Doniol-Valcroze, Thomas
Objet: briefing note pour le SMA
Pièces jointes: Maquereau 2017-Memo-DM_FR.docx

Thomas,

J'ai préparé une note de service pour le SMA à partir des faits saillants fournis pour la revue sur le maquereau. Est-ce que tu peux valider svp si c'est OK ou si j'ai oublié quelque chose d'important. Les faits saillants seront joints à la note.

Autre petit point, j'ai reçu la version finale du document de recherche d'Élisabeth sur le sondage pour les données manquantes sur le maquereau. Ce document sera publié en lien avec la réunion du cadre d'évaluation. En plus de ce document et du compte rendu, est-ce que tu prévois produire un autre document de recherche en lien avec la revue sur le cadre d'évaluation du maquereau.

Merci

Charley Cyr

Directeur, Avis, Informations et soutien scientifiques
Direction régionale des Sciences
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charley.cyr@dfo-mpo.gc.ca / Tél.: 418-775-0825

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Ma langue, une question de respect
My language, a matter of respect

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20XX-XXX-XXXXX

NOTE DE SERVICE À L'INTENTION DU SOUS-MINISTRE

ÉVALUATION RÉGIONALE DE L'ÉTAT DU STOCK DE MAQUEREAU BLEU DES SOUS-UNITÉS 3 ET 4

(aux fins d'information)

RÉSUMÉ DE L'AVIS AU SOUS-MINISTRE

L'évaluation de l'état du stock du maquereau bleu des sous-unités 3 et 4 a eu lieu les 8 et 9 mars 2017 à Mont-Joli, Québec.

Les faits saillants de la revue par les pairs ont été acceptés par les participants lors de la réunion (Annexe 1) et seront inclus dans l'avis scientifique qui sera finalisé et publié dans les prochaines semaines.

Les principaux résultats de ce processus seront présentés lors du Atlantic Mackerel Advisory Committee qui se tiendra le 30 mars 2017.

CONTEXTE

Un examen par des pairs régional sous l'égide du Secrétariat canadien de consultation scientifique (SCCS) a eu lieu les 8 et 9 mars 2017 à Mont-Joli, Québec pour évaluer l'état du stock de maquereau bleu des sous-régions 3 et 4.

L'évolution des principaux indicateurs de l'état du stock de maquereau bleu des sous-régions 3 et 4 sont présentés dans les faits saillants acceptés par les participants lors de la réunion (Annexe 1). Ce résumé sera inclus dans l'avis scientifique lorsqu'il sera publié au cours des prochaines semaines.

ANALYSES

Les débarquements commerciaux de maquereau bleu rapportés des sous-régions 3 et 4 ont considérablement diminué au cours des dernières années. Entre 2005 et 2015, ils sont passés de 54 621 t à 4 143 t. En 2016, le TAC de 8 000 t a été atteint. Un modèle statistique de prises

.../2

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à l'âge, dit « censuré », calibré par l'indice d'abondance des œufs et prenant en compte l'incertitude autour des prises non déclarées, confirme que la biomasse reproductrice du maquereau a décliné suite à des taux d'exploitation élevés et a atteint son minimum historique en 2012 (20 000 t). Selon le modèle, la biomasse en 2016 était de 40 000 t. Le Point de Référence Limite (PRL) pour ce stock est basé sur une approximation de 40%Brms à partir de F40% tel qu'obtenu par une analyse de rendement par recrue. Suivant le modèle censuré, le stock se situe en 2016 à 40 % du PRL de 103 000 t.

CONSIDÉRATIONS STRATÉGIQUES

La problématique des prises non-déclarées a été examinée à l'aide d'une synthèse des données disponibles sur les besoins en appât et sur les pêches récréatives, ainsi qu'à l'aide d'un sondage en ligne auprès des pêcheurs. Les deux approches montrent que les prises totales peuvent atteindre entre 150 % et 200 % des prises déclarées, et que ce rapport varie selon les provinces et au cours du temps. Des projections permettant d'estimer les risques associés à différents scénarios de capture ont été établis. Étant donné que le stock se situe dans la zone critique, la capture totale (déclarées + non-déclarées) devrait être suffisamment faible pour favoriser le rétablissement.

PROCHAINES ÉTAPES

Les résultats de cette revue par les pairs régionale seront publiés dans un avis scientifique du SCCS.

Trevor Swerdfager
Sous-ministre adjoint
Science des ecosystems et des Océans

Pièce jointe:
Annexe 1: Faits saillant de l'évaluation régionale 2017 du stock de maquereau bleu des sous-régions 3 et 4.
Appendix 1 : Summary : Assessment of Atlantic mackerel stock in subarea 3 and 4

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Cyr, Charley

De: Doniol-Valcroze, Thomas
Envoyé: 16 mars 2017 12:02
À: Cyr, Charley
Objet: RE: briefing note pour le SMA

Merci, Charley. Je pense que ça résume bien le tout et je ne vois pas d'élément important qui aurait été oublié. Comme tu le mentionnes, il y aura davantage de détails dans les faits saillants. (D'ailleurs, sais-tu quand les faits saillants seront approuvés ? J'ai une conférence téléphonique mardi avec NHQ sur ce sujet et ce serait bien de pouvoir considérer les faits saillants comme définitifs.)

Quant à ton autre question, oui je prévois toujours de produire un res doc en lien avec la revue cadre. Je vais essayer de tout finaliser d'ici début avril, mais pour l'instant ma priorité est de produire le SAR.

Thomas

De : Cyr, Charley
Envoyé : 16 mars 2017 11:26
À : Doniol-Valcroze, Thomas
Objet : briefing note pour le SMA

Thomas,

J'ai préparé une note de service pour le SMA à partir des faits saillants fournis pour la revue sur le maquereau. Est-ce que tu peux valider svp si c'est OK ou si j'ai oublié quelque chose d'important. Les faits saillants seront joints à la note.

Autre petit point, j'ai reçu la version finale du document de recherche d'Élisabeth sur le sondage pour les données manquantes sur le maquereau. Ce document sera publié en lien avec la réunion du cadre d'évaluation. En plus de ce document et du compte rendu, est-ce que tu prévois produire un autre document de recherche en lien avec la revue sur le cadre d'évaluation du maquereau.

Merci

Charley Cyr

Directeur, Avis, Informations et soutien scientifiques
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charley.cyr@dfo-mpo.gc.ca / Tél.: 418-775-0825

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Charley.cyr@dfo-mpo.gc.ca / Tel.: 418-775-0825

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Ma langue, une question de respect / My language, a matter of respect

No information has been removed or severed from this page

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Cyr, Charley

De: Cyr, Charley
Envoyé: 16 mars 2017 12:05
À: de Lafontaine, Yves
Cc: Gilbert, Michel; Doniol-Valcroze, Thomas; Castonguay, Martin
Objet: Sommaire revue maquereau pour le SMA
Pièces jointes: Annexe 1 Sommaire maquereau _fra_ang.docx; Maquereau 2017-Memo-DM_FR.docx

Bonjour Yves,

Voici le sommaire de la revue maquereau avec les faits saillants pour le SMA. N'oublie pas de transmettre à Maryse Lemire en cc.

Merci

Charley Cyr

Directeur, Avis, Informations et soutien scientifiques
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Ma langue, une question de respect
My language, a matter of respect

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Cyr, Charley

De: Doniol-Valcroze, Thomas
Envoyé: 20 mars 2017 12:46
À: Cyr, Charley
Objet: RE: sommaire maquereau
Pièces jointes: Maquereau 2017-Memo-DM_FR.docx

Qu'en penses-tu ?

De : Cyr, Charley
Envoyé : 20 mars 2017 11:38
À : Doniol-Valcroze, Thomas
Objet : sommaire maquereau

Thomas,

Voici la note de service

Charley Cyr

Directeur, Avis, Informations et soutien scientifiques
Direction régionale des Sciences
Pêches et Océans Canada / Gouvernement du Canada
charley.cyr@dfo-mpo.gc.ca / Tél.: 418-775-0825

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20XX-XXX-XXXXX

NOTE DE SERVICE À L'INTENTION DU SOUS-MINISTRE

ÉVALUATION RÉGIONALE DE L'ÉTAT DU STOCK DE MAQUEREAU BLEU DES SOUS-UNITÉS 3 ET 4
(aux fins d'information)

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.../2

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à l'âge, dit « censuré », calibré par l'indice d'abondance des œufs et prenant en compte l'incertitude relative aux des prises non déclarées (pêche pour appât et pêche récréative), confirme que la biomasse reproductrice du maquereau a décliné suite à des taux d'exploitation ~~élevés~~ de plus de 30% dans les années 2000 et a atteint son minimum historique ~~-~~ en 2012 (20 000 t). Selon le modèle, la biomasse en 2016 était de 40 000 t. Le Point de Référence Limite (PRL) pour ce stock est basé sur une approximation de 40% de la biomasse au rendement maximal soutenu (B_{rms}) à partir d'~~e F40% tel qu'obtenu par~~ une analyse de rendement par recrue. Suivant le modèle censuré, le stock se situe en 2016 à 40 % du PRL de 103 000 t.

Commentaire [TDV1]: Si on veut simplifier advantage...

La problématique des prises non déclarées a été examinée à l'aide d'une synthèse des données disponibles sur les besoins en appât et sur les pêches récréatives, ainsi qu'à l'aide d'un sondage en ligne auprès des pêcheurs. Les deux approches montrent que les prises totales depuis 2010 peuvent atteindre entre 150 % et 200 % des prises déclarées, et que ce rapport varie ~~selon~~ entre les provinces et entre les années, selon l'évolution des besoins en appât~~au cours du temps~~.

CONSIDÉRATIONS STRATÉGIQUES

Des projections permettant d'estimer les risques associés à différents scénarios de capture ont été établis. Étant donné que le stock se situe dans la zone critique, la capture totale (déclarées + non déclarées) devrait être fixée à un niveau correspondant à de fortes probabilités de voir la biomasse reproductrice augmenter et dépasser le PRL.~~suffisamment faible pour favoriser le rétablissement~~.

PROCHAINES ÉTAPES

Les résultats de cette revue par les pairs régionale seront publiés dans un avis scientifique du SCCS.

Trevor Swerdfager
Sous-ministre adjoint
Science des ecosystems et des Océans

Pièce jointe:
Annexe 1: Sommaire : Évaluation du stock de maquereau bleu des sous-régions 3 et 4.
Appendix 1 : Summary : Assessment of Atlantic mackerel stock in subarea 3 and 4

s.21(1)(b)

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Cyr, Charley

De: Doniol-Valcroze, Thomas
Envoyé: 20 mars 2017 13:36
À: Cyr, Charley
Objet: RE: sommaire maquereau

En fait, je ne sais pas exactement ce qu'Yves attendait quand il demandait de "reformuler".

[redacted] notre seule recommandation est que le niveau soit assez bas pour avoir de bonnes probabilités de rétablissement.

De : Cyr, Charley
Envoyé : 20 mars 2017 13:30
À : Doniol-Valcroze, Thomas
Objet : RE: sommaire maquereau

Salut Thomas,

Ça me va dans l'ensemble. Il n'y a que la dernière phrase dont je ne suis pas encore certain.

[redacted]

Je ne suis pas certain que c'est plus précis que la phrase précédente.

Est-ce qu'on pourrait dire : [redacted]

Charley Cyr
Directeur
DAISS
(418) 775-0825
Charley.Cyr@dfo-mpo.gc.ca

De : Doniol-Valcroze, Thomas
Envoyé : 20 mars 2017 12:46
À : Cyr, Charley
Objet : RE: sommaire maquereau

Qu'en penses-tu ?

De : Cyr, Charley
Envoyé : 20 mars 2017 11:38

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À : Doniol-Valcroze, Thomas
Objet : sommaire maquereau

Thomas,

Voici la note de service

Charley Cyr

Directeur, Avis, Informations et soutien scientifiques
Direction régionale des Sciences
Pêches et Océans Canada / Gouvernement du Canada
charley.cyr@dfo-mpo.gc.ca / Tél.: 418-775-0825

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Ma langue, une question de respect
My language, a matter of respect

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Cyr, Charley

De: Cyr, Charley
Envoyé: 21 mars 2017 12:50
À: Landry, Jean
Cc: de Lafontaine, Yves; Gilbert, Michel
Objet: Sommaire maquereau
Pièces jointes: Annexe 1 Sommaire maquereau _fra_ang.docx; Maquereau 2017-Memo-DM_FR_V3.docx

Jean,

À la demande de Yves, voici le sommaire de la réunion sur l'évaluation du stock de maquereau.

Charley Cyr

Directeur, Avis, Informations et soutien scientifiques
Direction régionale des Sciences
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20XX-XXX-XXXXX

NOTE DE SERVICE À L'INTENTION DU SOUS-MINISTRE

ÉVALUATION DE L'ÉTAT DU STOCK DE MAQUEREAU BLEU DES SOUS-UNITÉS 3 ET 4

(aux fins d'information)

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ANALYSES

Les débarquements commerciaux de maquereau bleu rapportés des sous-régions 3 et 4 ont considérablement diminué au cours des dernières années. Entre 2005 et 2015, ils sont passés de 54 621 t à 4 143 t. En 2016, le TAC de 8 000 t a été atteint. Un modèle statistique de prises

.../2

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à l'âge, dit « censuré », calibré par l'indice d'abondance des œufs et prenant en compte l'incertitude relative aux prises non déclarées (pêche pour appât et pêche récréative), confirme que la biomasse reproductrice du maquereau a décliné suite à des taux d'exploitation de plus de 30% dans les années 2000 et a atteint son minimum historique en 2012 (20 000 t). Selon le modèle, la biomasse en 2016 était de 40 000 t. Le Point de Référence Limite (PRL) pour ce stock est basé sur une approximation de 40% de la biomasse au rendement maximal soutenu (B_{rms}) à partir d'une analyse de rendement par recrue. Suivant le modèle censuré, le stock se situe en 2016 à 40 % du PRL de 103 000 t.

La problématique des prises non déclarées a été examinée à l'aide d'une synthèse des données disponibles sur les besoins en appât et sur les pêches récréatives, ainsi qu'à l'aide d'un sondage en ligne auprès des pêcheurs. Les deux approches montrent que les prises totales depuis 2010 peuvent atteindre entre 150 % et 200 % des prises déclarées, et que ce rapport varie entre les provinces et entre les années, selon l'évolution des besoins en appât.

CONSIDÉRATIONS STRATÉGIQUES

Des projections permettant d'estimer les risques associés à différents scénarios de capture ont été établies. Étant donné que le stock se situe dans la zone critique, les captures totales (déclarées + non déclarées) devraient être fixées à un niveau correspondant à de fortes probabilités de voir la biomasse reproductrice augmenter et dépasser le PRL.

PROCHAINES ÉTAPES

Les résultats de cette revue par les pairs régionale seront publiés dans un avis scientifique du SCCS.

Trevor Swerdfager
Sous-ministre adjoint
Science des ecosystems et des Océans

Pièce jointe:
Annexe 1: Sommaire : Évaluation du stock de maquereau bleu des sous-régions 3 et 4.
Appendix 1 : Summary : Assessment of Atlantic mackerel stock in subarea 3 and 4

Pages 1173 to / à 1174

are duplicates of

sont des duplicatas des

pages 2189 to / à 2190

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s.16(2)

Cyr, Charley

De: de Lafontaine, Yves
Envoyé: 23 mars 2017 08:59
À: Cyr, Charley; Gilbert, Michel
Cc: Doniol-Valcroze, Thomas; Castonguay, Martin
Objet: RE: Note de service - maquereau
Pièces jointes: Maquereau 2017-Memo-DM_FR_V3.docx

Voir mon commentaire sur le document et retravailler la formulation.

Yves de Lafontaine

Directeur, Institut Maurice Lamontagne
Directeur, Direction régionale des Sciences
Pêches et Océans Canada / Gouvernement du Canada
Yves.delafontaine@dfo-mpo.gc.ca Tél. : 418-775-0555 / tél. cell. :

Director, Maurice Lamontagne Institute
Director, Sciences regional directorate
Fisheries and Oceans Canada / Government of Canada
Yves.delafontaine@dfo-mpo.gc.ca Tel : 418-775-0555 / Cel. :

Ma langue, une question de respect / My language, a matter of respect

De : Cyr, Charley
Envoyé : 20 mars 2017 15:50
À : Gilbert, Michel <Michel.Gilbert@dfo-mpo.gc.ca>; de Lafontaine, Yves <Yves.deLafontaine@dfo-mpo.gc.ca>
Cc : Doniol-Valcroze, Thomas <Thomas.Doniol-Valcroze@dfo-mpo.gc.ca>
Objet : RE: Note de service - maquereau

OK pour moi,

Voici la version avec les modifications acceptées.

Charley Cyr
Directeur
DAISS
(418) 775-0825
Charley.Cyr@dfo-mpo.gc.ca

De : Gilbert, Michel
Envoyé : 20 mars 2017 15:35
À : Cyr, Charley; de Lafontaine, Yves

Document Released Under the Access to Information Act / Document divulgué en vertu de la Loi sur l'accès à l'information.

Cc : Doniol-Valcroze, Thomas
Objet : RE: Note de service - maquereau

Quelques commentaires et suggestions dans le fichier joint.

Michel G.

Michel Gilbert, M. Sc.
Directeur / Director
Direction des sciences pélagiques et écosystémiques / Pelagic and Ecosystem Science Branch
Direction régionale des Sciences / Regional Science Directorate
Pêches et Océans Canada / Fisheries and Oceans Canada
Institut Maurice-Lamontagne / Maurice Lamontagne Institute
850, Route de la Mer, C.P. 1000
Mont-Joli, Québec, Canada G5H 3Z4
Tél. / Tel. : (418) 775-0604
Téléc. / Fax : (418) 775-0718
Courriel / E-mail : michel.gilbert@dfo-mpo.gc.ca
http://www.qc.dfo-mpo.gc.ca/iml

Ma langue, une question de respect / My language, a matter of respect

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De : Cyr, Charley
Envoyé : 20 mars 2017 13:47
À : de Lafontaine, Yves; Gilbert, Michel
Cc : Doniol-Valcroze, Thomas
Objet : Note de service - maquereau

Yves et Michel,

Voici une nouvelle version de la note de service préparée pour le SMA sur le maquereau. J'ai validé avec Thomas l'information. Je joins également les faits saillants approuvés lors de la rencontre.

Charley Cyr

Directeur, Avis, Informations et soutien scientifiques
Direction régionale des Sciences
Pêches et Océans Canada / Gouvernement du Canada
charley.cyr@dfo-mpo.gc.ca / Tél.: 418-775-0825

Director, Scientific Advices, Informations and Support
Science Regional Branch
Fisheries and Oceans Canada / Government of Canada
Charley.cyr@dfo-mpo.gc.ca / Tel.: 418-775-0825

Ma langue, une question de respect / My language, a matter of respect

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20XX-XXX-XXXXX

NOTE DE SERVICE À L'INTENTION DU SOUS-MINISTRE

ÉVALUATION DE L'ÉTAT DU STOCK DE MAQUEREAU BLEU DES SOUS-UNITÉS 3 ET 4
(aux fins d'information)

RÉSUMÉ DE L'AVIS AU SOUS-MINISTRE

L'évaluation de l'état du stock du maquereau bleu des sous-unités 3 et 4 a eu lieu les 8 et 9 mars 2017 à Mont-Joli, Québec.
Les faits saillants de la revue par les pairs ont été acceptés par les participants lors de la réunion (Annexe 1) et seront inclus dans l'avis scientifique qui sera finalisé et publié dans les prochaines semaines.
Les principaux résultats de ce processus seront présentés lors du « Atlantic Mackerel Advisory Committee » (AMAC) qui se tiendra le 30 mars 2017.

CONTEXTE

Un examen par des pairs régional sous l'égide du Secrétariat canadien de consultation scientifique (SCCS) a eu lieu les 8 et 9 mars 2017 à Mont-Joli, Québec pour évaluer l'état du stock de maquereau bleu des sous-régions 3 et 4.

L'évolution des principaux indicateurs de l'état du stock de maquereau bleu des sous-régions 3 et 4 sont présentés dans les faits saillants qui ont été acceptés par les participants lors de la réunion (Annexe 1). Ce résumé sera inclus dans l'avis scientifique lorsqu'il sera publié au cours des prochaines semaines.

ANALYSES

Les débarquements commerciaux de maquereau bleu rapportés des sous-régions 3 et 4 ont considérablement diminué au cours des dernières années. Entre 2005 et 2015, ils sont passés de 54 621 t à 4 143 t. En 2016, le TAC de 8 000 t a été atteint. Un modèle statistique de prises

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s.21(1)(a)
s.21(1)(b)

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La problématique des prises non déclarées a été examinée à l'aide d'une synthèse des données disponibles sur les besoins en appât et sur les pêches récréatives, ainsi qu'à l'aide d'un sondage en ligne auprès des pêcheurs. Les deux approches montrent que les prises totales depuis 2010 peuvent atteindre entre 150 % et 200 % des prises déclarées, et que ce rapport varie entre les provinces et entre les années, selon l'évolution des besoins en appât.

CONSIDÉRATIONS STRATÉGIQUES

Des projections permettant d'estimer les risques associés à différents scénarios de capture ont été établies. Étant donné que le stock se situe dans la zone critique, les captures totales (déclarées + non déclarées) devraient être fixées à un niveau correspondant à de fortes probabilités de voir la biomasse reproductrice augmenter et dépasser le PRL.

PROCHAINES ÉTAPES

Les résultats de cette revue par les pairs régionale seront publiés dans un avis scientifique du SCCS.

Trevor Swerdfager
Sous-ministre adjoint
Science des ecosystems et des Océans

Pièce jointe:
Annexe 1: Sommaire : Évaluation du stock de maquereau bleu des sous-régions 3 et 4.
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20XX-XXX-XXXXX

NOTE DE SERVICE À L'INTENTION DU SOUS-MINISTRE ADJOINT DES SCIENCES DES ÉCOSYSTÈMES ET DES OCÉANS

ÉVALUATION DE L'ÉTAT DU STOCK DE MAQUEREAU BLEU DES SOUS-UNITÉS 3 ET 4

(aux fins d'information)

RÉSUMÉ DE L'AVIS AU SOUS-MINISTRE

L'évaluation de l'état du stock du maquereau bleu des sous-unités 3 et 4 a eu lieu les 8 et 9 mars 2017 à Mont-Joli, Québec.

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s.21(1)(a)
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CONSIDÉRATIONS STRATÉGIQUES

L'avis scientifique précédent (2014) recommandait un TAC de 800 t mais cet avis était biaisé parce qu'il n'incluait pas d'estimations des captures non-déclarées. L'avis présent inclut les meilleures estimations possibles des captures non-déclarées en utilisant le nouveau modèle, et propose donc une estimation plus réaliste de la biomasse reproductrice.

Des projections qui tiennent compte des captures non déclarées ont été établies pour estimer les risques associés à différents scénarios de capture pour les années 2017 et 2018.

Cependant, étant donné que le stock se situe actuellement dans la zone critique, la priorité devrait être à la reconstruction et les captures totales devraient être limitées de façon à favoriser l'accroissement de la biomasse reproductrice pour permettre à la population d'atteindre le PRL.

PROCHAINES ÉTAPES

Les résultats de cette revue par les pairs régionale seront publiés dans un avis scientifique du SCCS.

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Yves de Lafontaine
Directeur régional des Sciences,
région du Québec

Pièce jointe:
Annexe 1: Sommaire : Évaluation du stock de maquereau bleu des sous-régions 3 et 4.
Appendix 1: Summary : Assessment of Atlantic mackerel stock in subarea 3 and 4

Pages 1182 to / à 1183
are duplicates of
sont des duplicatas des
pages 2189 to / à 2190

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Patterson, Pauline

De: Rivierre, Antoine
Envoyé: March-17-17 10:54 AM
À: Trottier, Steve; Morin, Bernard; Hardy, Magalie; Richard, Josée; Morin, Mathieu; Lemelin, Dario; Simard, France; Rowsell, Andrew; Drapeau, André; Arseneau, Cédric; Brouillette, Pierre-Charles; Deslauriers, Marcelle
Cc: Gros-Louis, Denis; Boudreau, Suzie
Objet: RAP_Maquereau
Pièces jointes: mackerel_assessment_jour2.pdf; evaluation_maquereau_jour1.pdf

Bonjour à tous,
Pour votre information, vous trouverez en pièce jointe les documents présentés lors de la revue des stocks de maquereau qui s'est tenue la semaine passée à L'IML.
En résumé, les points marquants sont :

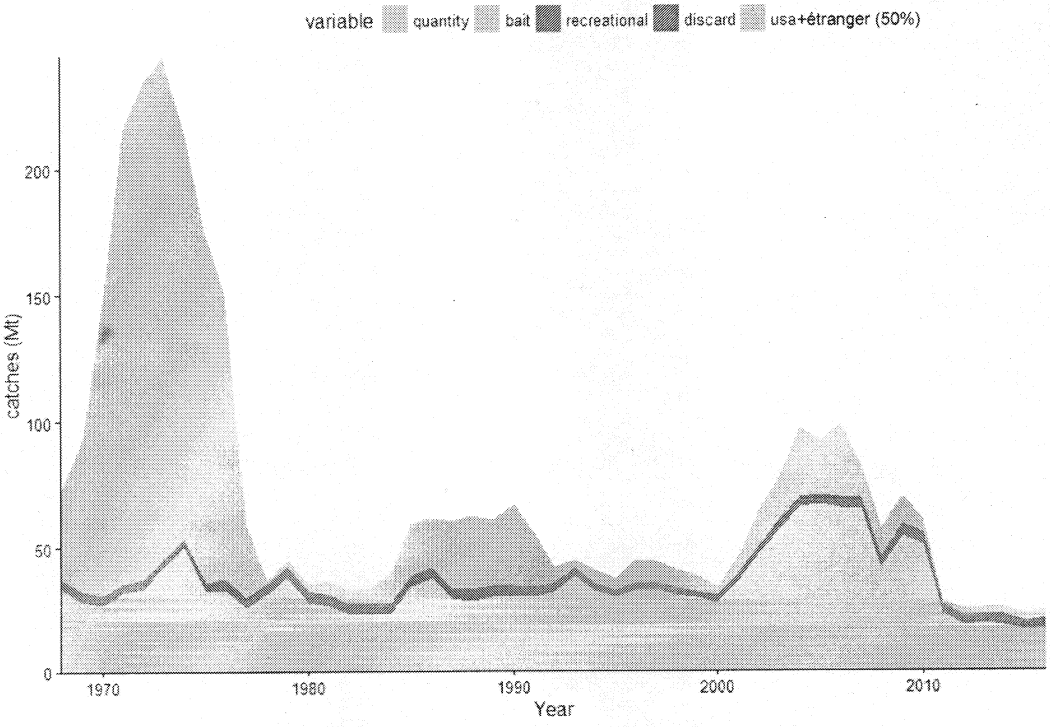
- Entre 2013 et 2015, les débarquements (déclarés) sont passés de 8 663 tonnes à 4143 tonnes (diapo 23-24 jour 1)
- Baisse des débarquements américains
- En 2016, le TAC de 8000 tonnes aurait été atteint pour la première fois. Cependant les données de débarquement de la région du Golfe et des maritimes n'ont pas été fournies et seulement 5357 tonnes ont été rapportées (diapo 24).
- Les différents indicateurs biologiques présentés et l'analyse des débarquements indiquent que le stock de maquereau se situe dans la zone critique
- La longueur à 50 % de maturité se maintient légèrement au-dessus de la longueur minimale de capture
- La structure d'âge a considérablement rétréci suite à la disparition des poissons de plus de 5 ans. On observe une légère amélioration depuis 2013 avec une hausse d'abondance des maquereaux d'âge de 5 et 6 ans.
- L'indice d'abondance issue du relevé des œufs a atteint son niveau le plus bas en 2012 et a légèrement augmenté jusqu'à 52t en 2016. Cette valeur reste très faible.
- L'analyse des captures non déclarées montre que les prises totales peuvent atteindre 150 % et 200 % des prises déclarées et que ce rapport varie selon les provinces
- Le modèle statistique des prises à l'âge confirme que la SSB a atteint son minimum en 2012 et a légèrement augmenté pour atteindre 40 000 tonnes en 2016
- La baisse de biomasse est occasionnée par des niveaux de mortalité par la pêche (taux d'exploitation) plusieurs fois supérieurs aux niveaux historiques soutenables. Le rétablissement semble avoir été ralenti par la rareté des évènements de recrutement.
- Le point de référence limite est de 103 000 tonnes, en 2016, le stock est donc à 40 % du PRL
- Stock est dans la zone critique
- Étant donné que le stock est dans la zone critique, la priorité devrait être à la reconstruction. Des projections montrent que des mortalités de pêche totales (incluant les prises non déclarées) supérieures à 12 500 tonnes compromettent le rétablissement du stock.

Si vous avez des interrogations concernant l'information présentée, je vous invite à me contacter directement.

Antoine

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Limite supérieure informée



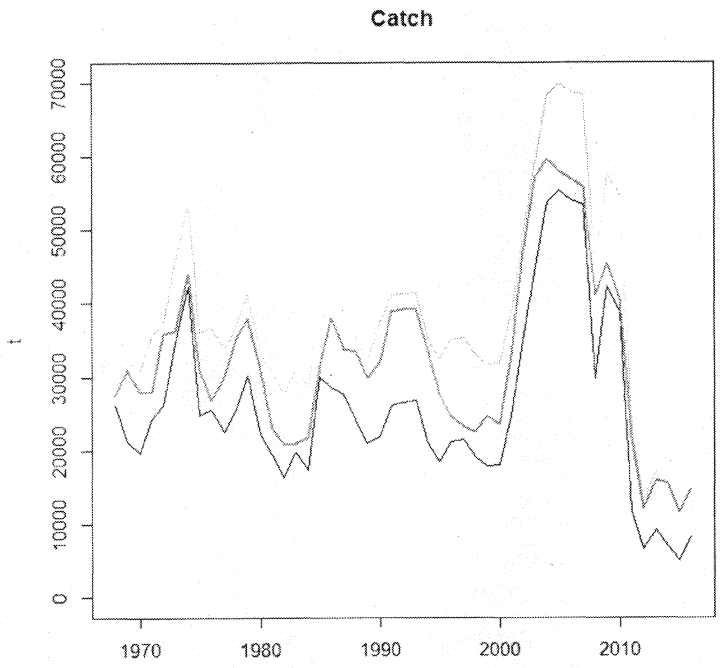
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3 versions du modèle

- Version 1: non-censurée (prises = déclarées)
- Version 2: censurée informée (Canada)
- Version 3: censurée avec Canada + 50% prises US et étrangères

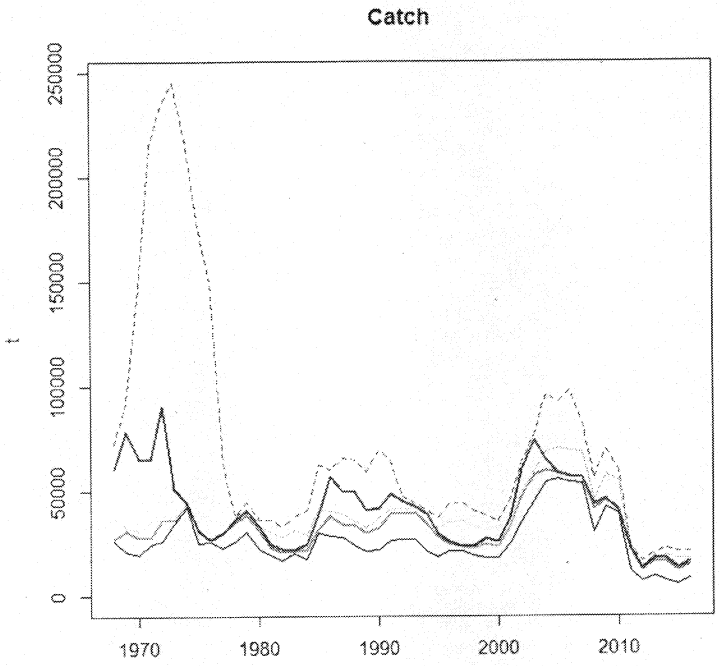
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Résultats versions 1 et 2



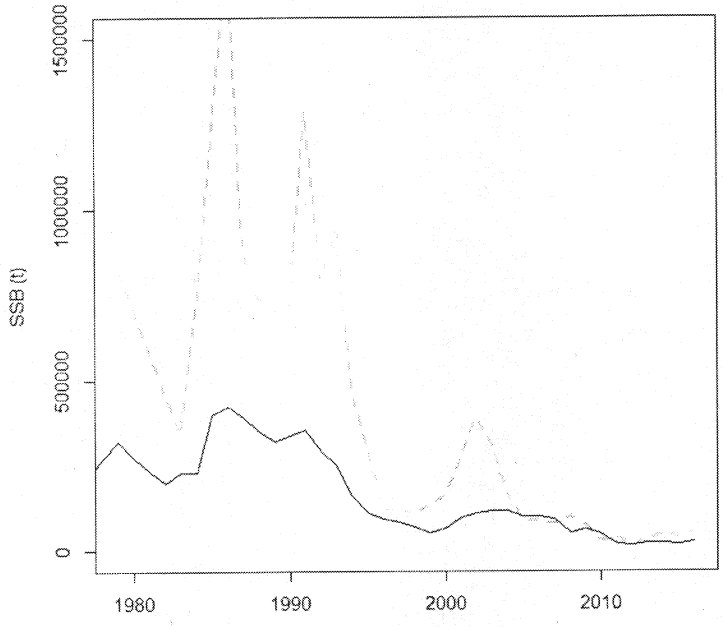
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Résultats version 3 (+US/foreign)



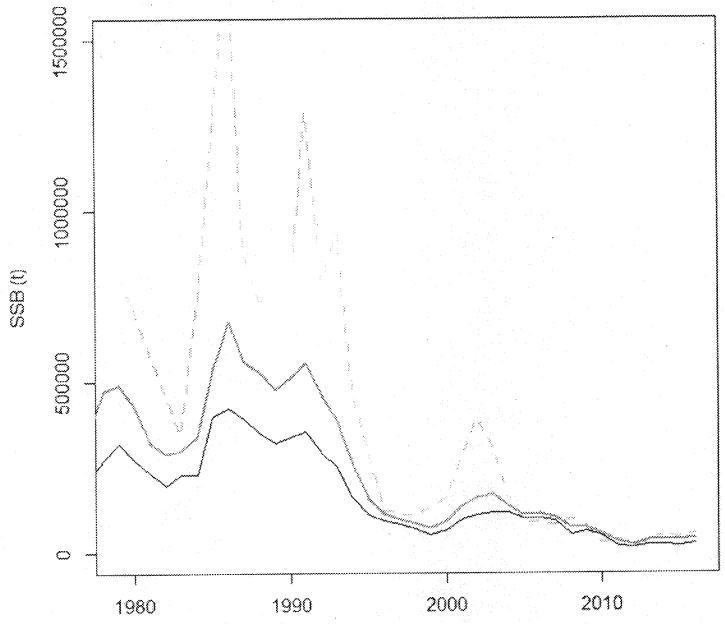
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Résultats version 1 (non-censurée)



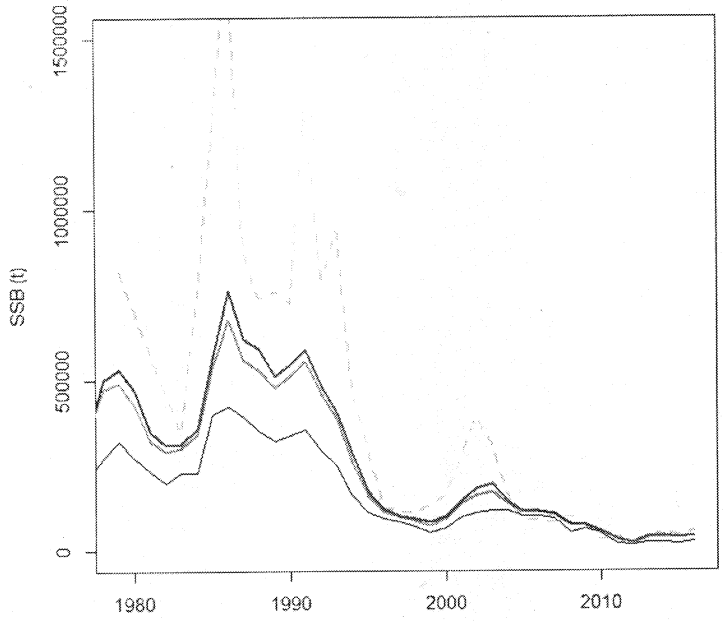
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Résultats version 2 (censurée)



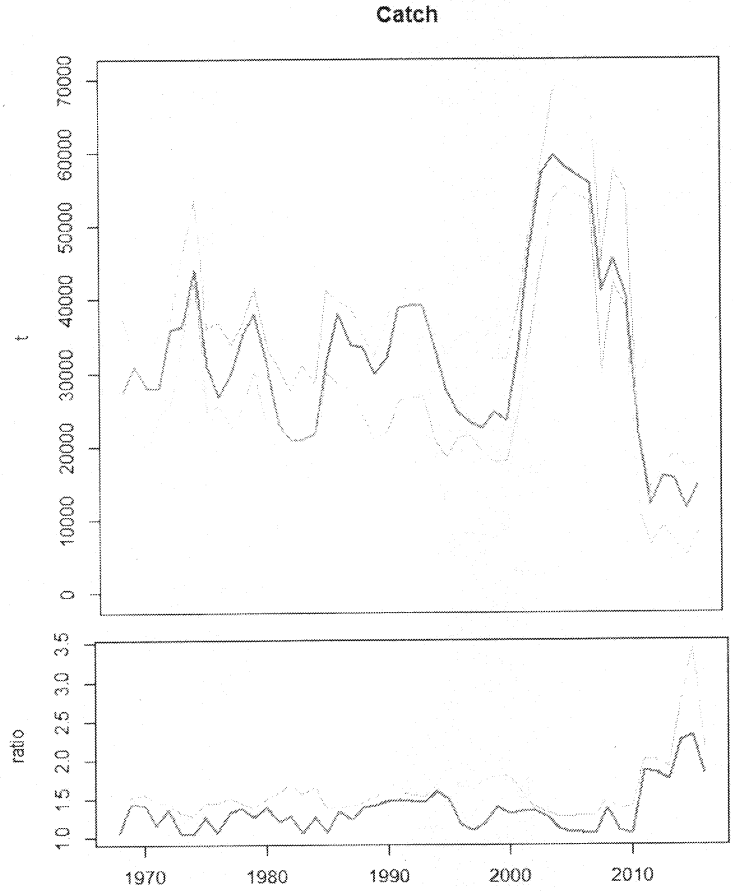
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Résultats version 3 (+US/foreign)



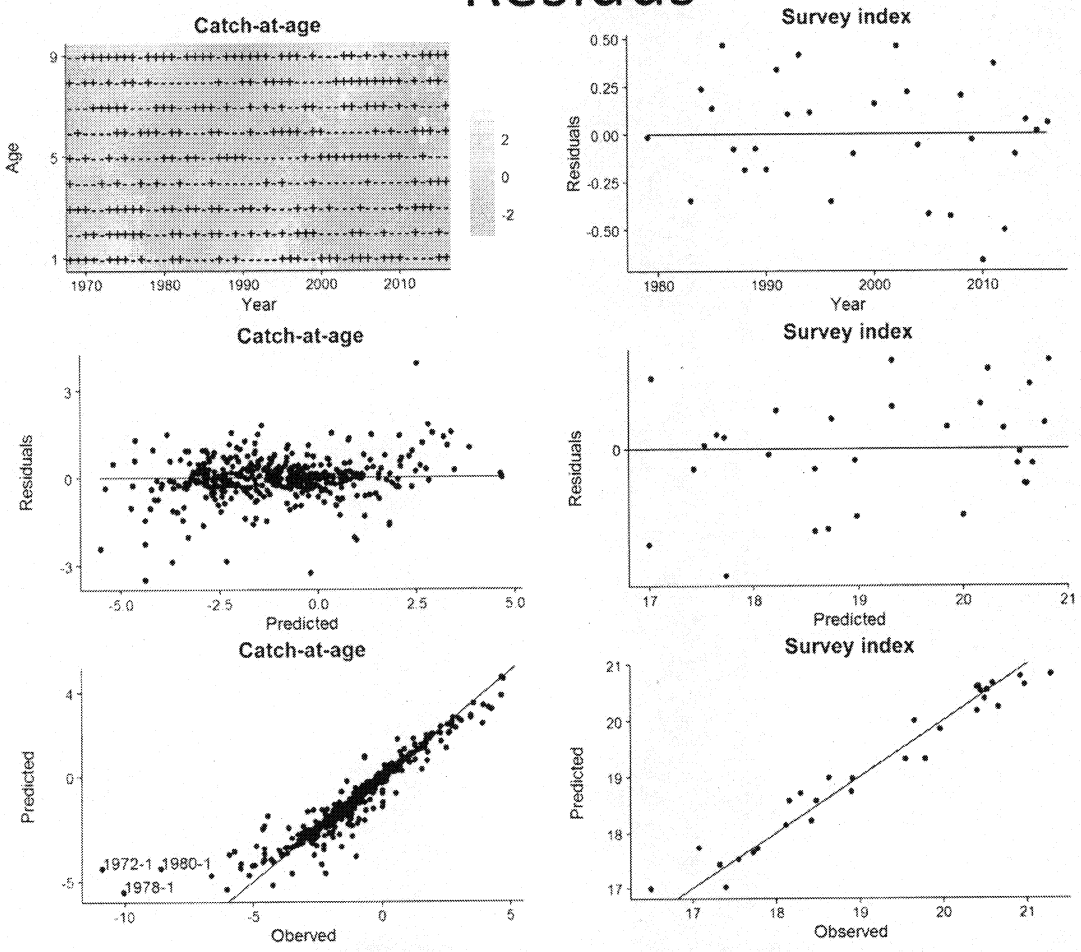
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Résultats version 2 (censurée)



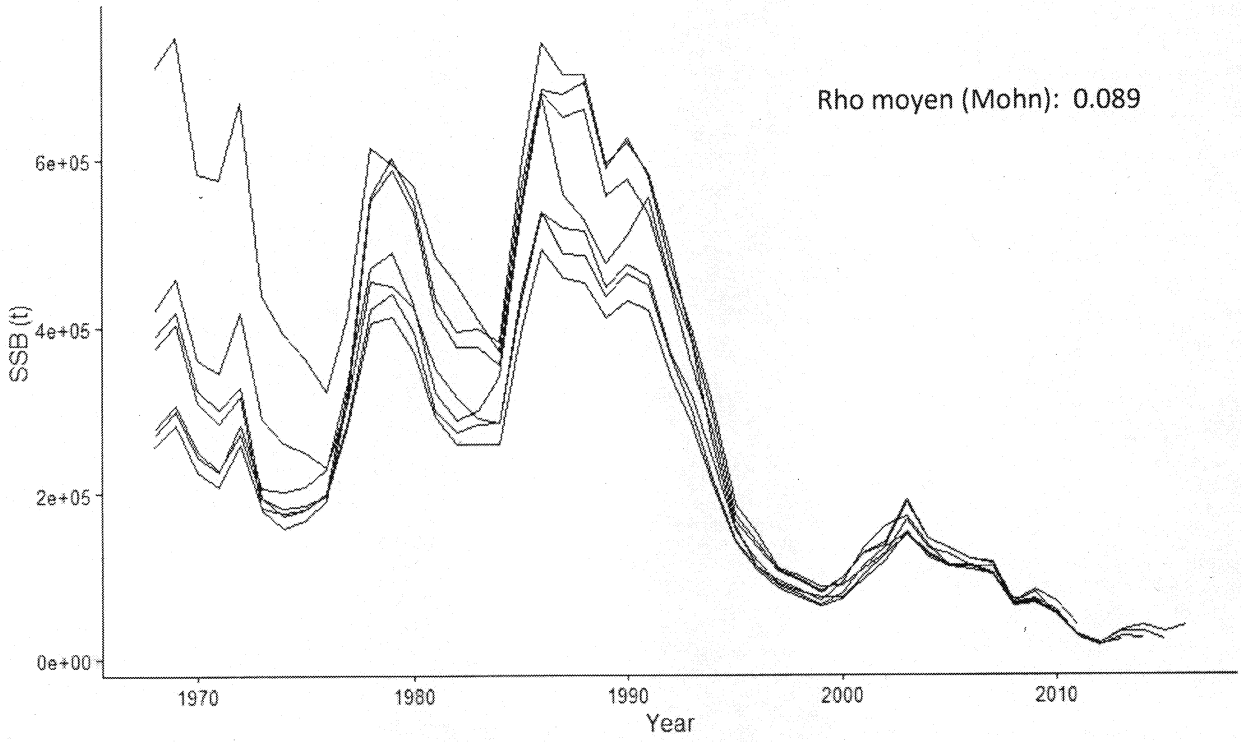
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Résidus



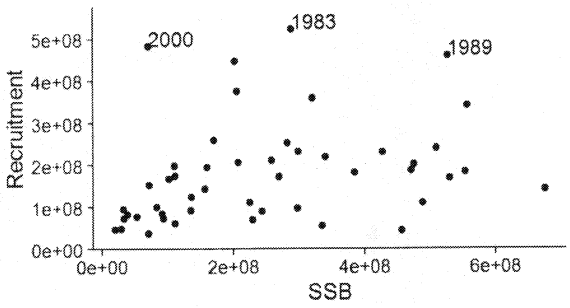
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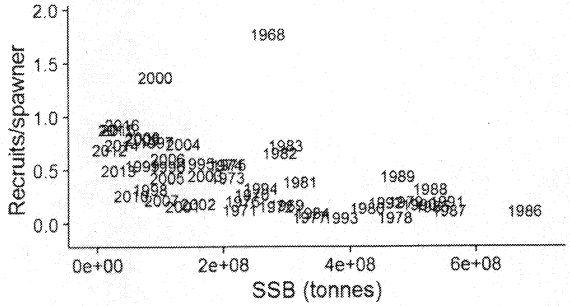
Patrons retrospectifs

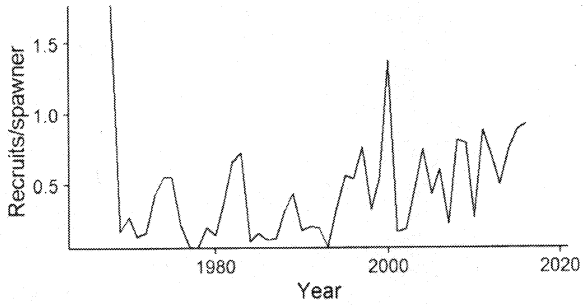


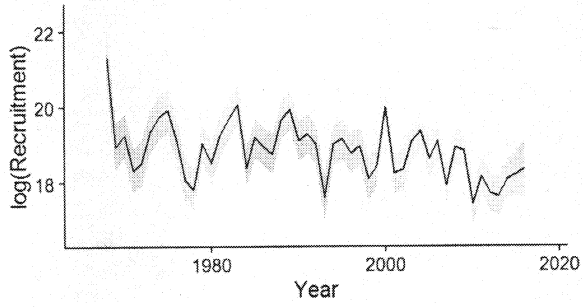
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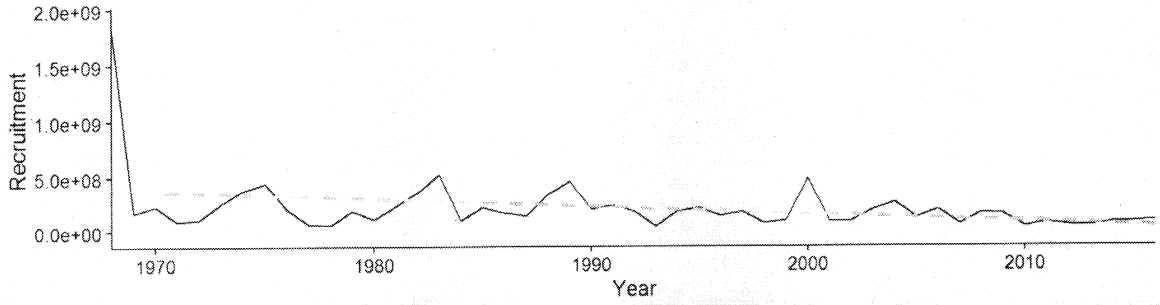
Recrutement



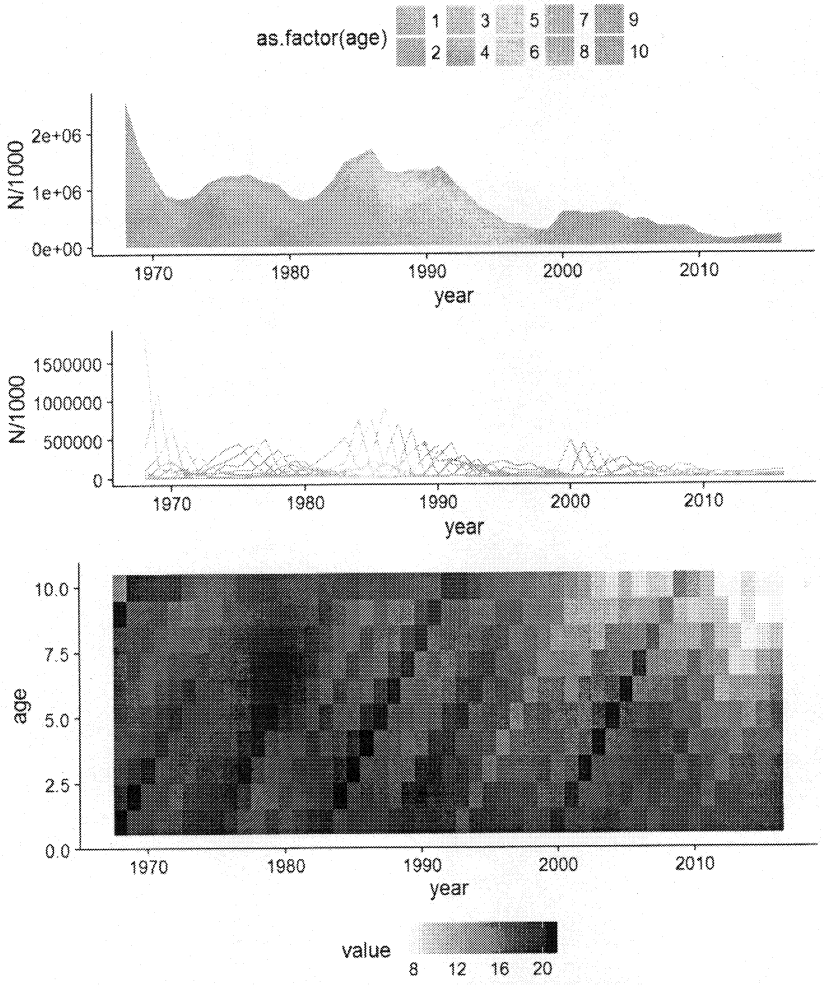






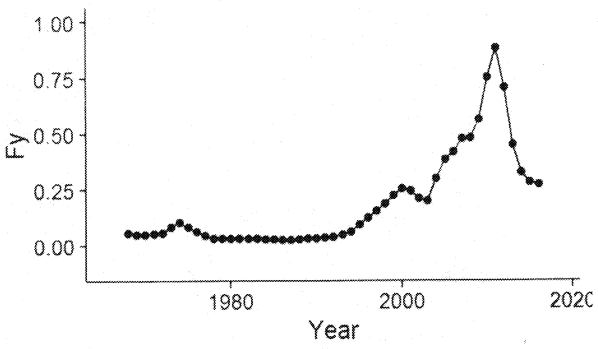


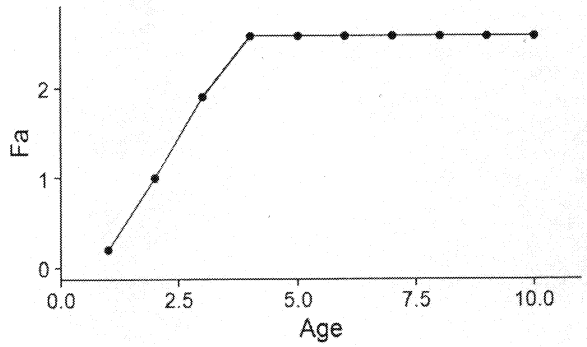
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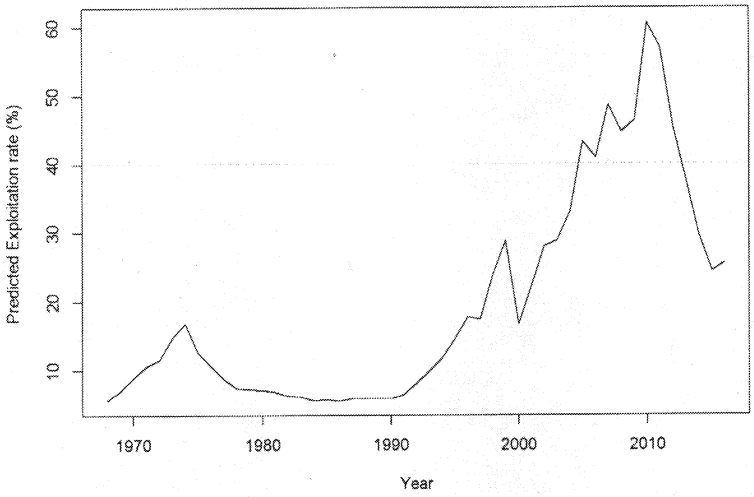


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F et taux d'exploitation

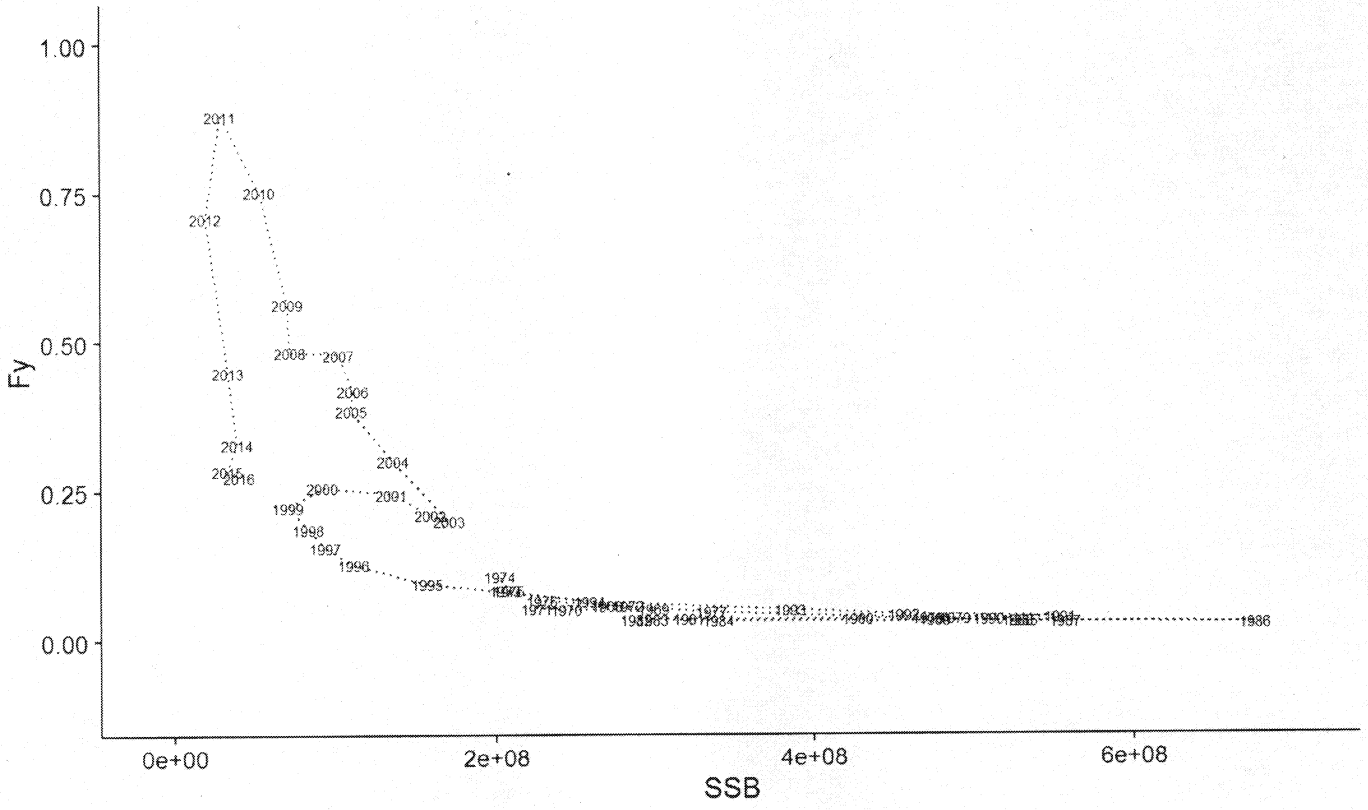






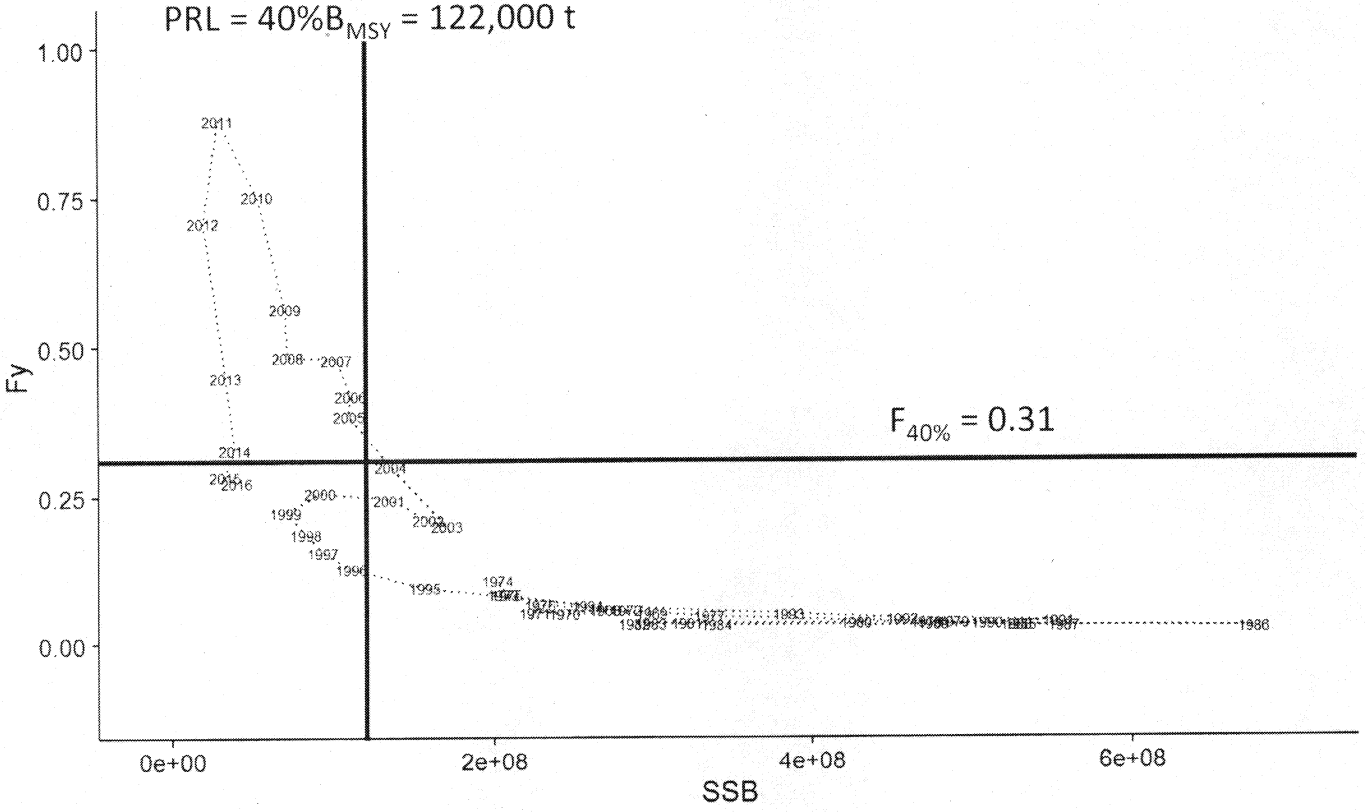
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Trajectoire du stock



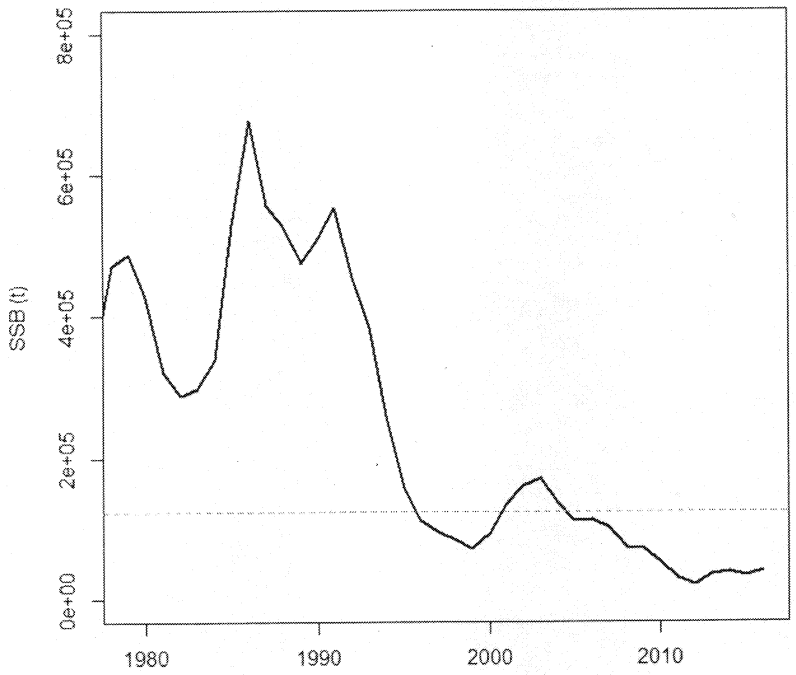
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Trajectoire du stock

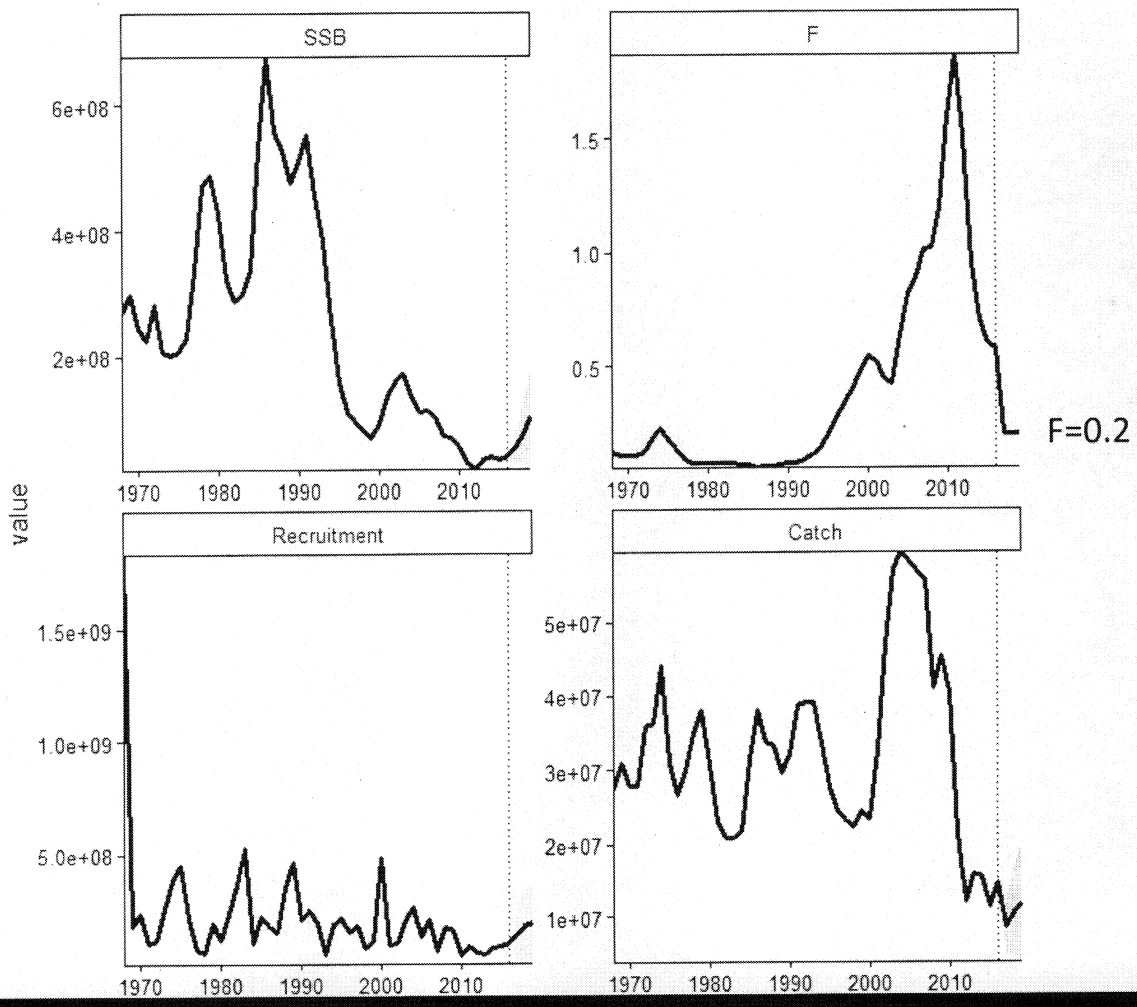


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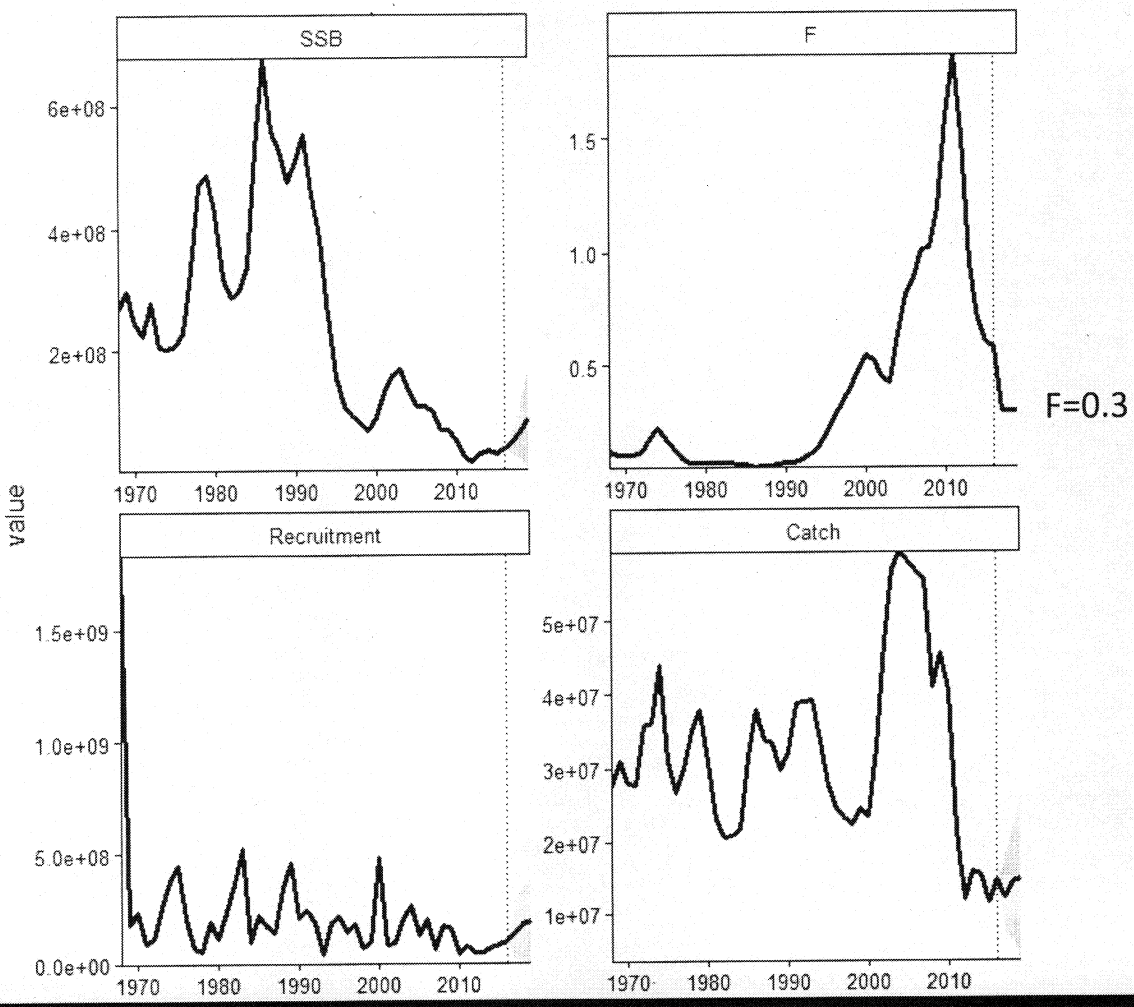
État du stock



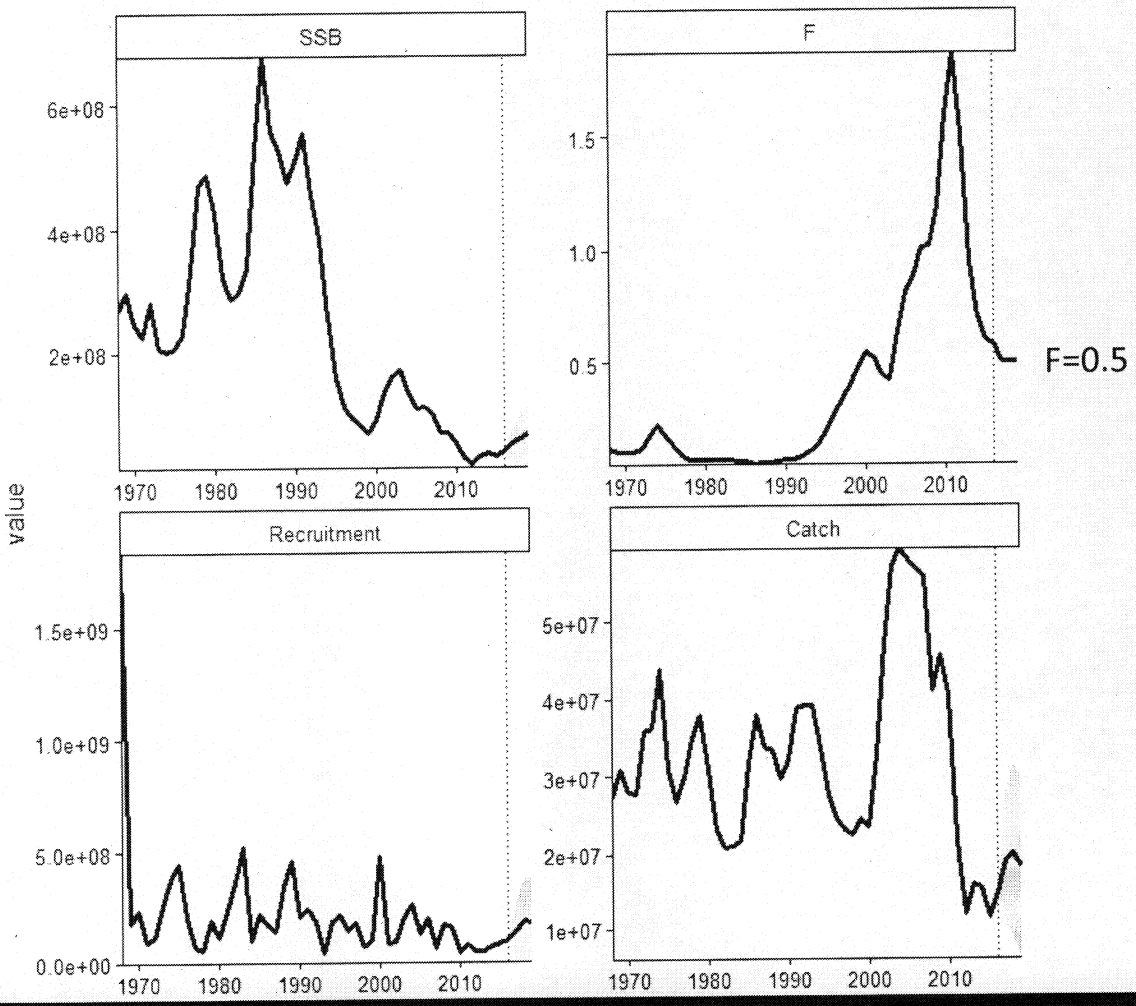
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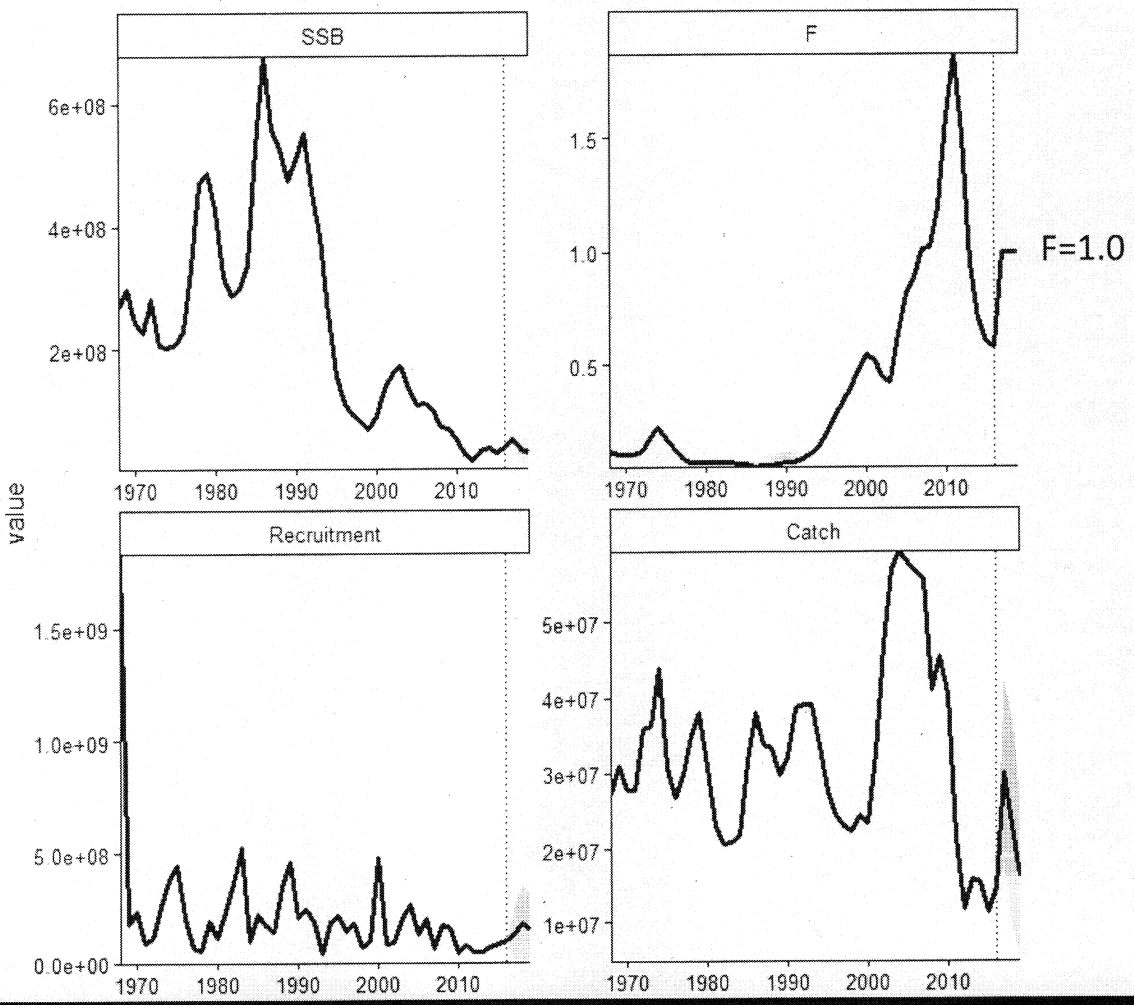
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Détermination des prises et formulation du TAC

- Les prises associées au F choisi sont considérées comme totales (=déclarées + non-déclarées)
- Par exemple, si les prises **totales** recommandées étaient de 12,000 tonnes (F=0.3) , et que le taux de prises non-déclarées est estimé à 1.5, cela implique des débarquements déclarés maximums de 8,000 t.

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Années intérimaires

- Prochaine évaluation prévue à l'hiver 2019
- Identification des indicateurs de suivis pour l'état du stock dans les années intérimaires:
  - Débarquements et indice d'abondance des œufs 2017
- Éléments déclencheurs d'une évaluation dans une année intérimaire:
  - Diminution de plus de 30% de l'indice de SSB

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Demande de la gestion des pêches

- L'industrie de la pêche au maquereau nous rapporte qu'elle capture beaucoup de poisson sous la taille légale. Selon la réglementation, un pêcheur lors d'un voyage de pêche ne peut avoir en sa possession une quantité supérieure à 10% de maquereau sous la taille légale. Toutefois, on nous rapporte que des taux de débarquement allant jusqu'à 90% de poissons sous la taille légale. Les maquereaux capturés à l'aide d'hameçons dans un contexte de pêche commerciale font en sorte que la mâchoire des poissons se déchire lorsque les poissons sont embarqués à bord des bateaux. Nous n'avons toutefois aucune données/information sur le taux de survie suite à la remise à l'eau, mais de vue réglementaire, le pêcheur se doit de remettre à l'eau toutes prises sous la taille légale.

- Ne connaissant pas le potentiel de survie suite à la remise à l'eau, un support des sciences est requis afin d'encadrer une approche visant à développer un TAC pour une pêche sans taille minimale.

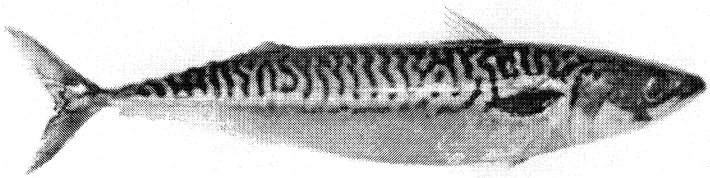
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Taille légale minimale

- Il est vrai que la taille minimale crée une mortalité par rejet qui peut être importante et est difficile à estimer
- Mais la taille minimale permet d'assurer qu'au moins 50% des poissons ont une occasion de se reproduire avant d'être pris
- Un TAC sans taille légale serait nécessairement moins élevé, prélèverait davantage de poissons en nombre, et entrainerait une taille moyenne des poissons pêchés plus basse

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Évaluation du maquereau bleu des sous-régions 3-4 de l'OPANO



Thomas Doniol-Valcroze, Benoît Légaré,
Linda Girard, Mélanie Boudreau,
Elisabeth Van Beveren & Martin Castonguay

Remerciements :

- Sylvain Hurtubise: Données de la pêche et de l'échantillonnage commercial
- Échantillonneur(e)s des régions du Québec, du Golfe, des Maritimes et de Terre-Neuve
- Équipage du Téléost et du Coriolis II
- Stéphane Plourde et Caroline Lehoux: Considérations écosystémiques
- Claude Brassard et Denis Bernier: soutien logiciel de captures à l'âge
- Noël Cadigan et William Aeberhard: soutien développement modèle

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Calendrier d'évaluation

- Dernière évaluation: 2014
- Évaluation de 2016 reportée à 2017
- Décembre 2016: revue des intrants (œufs)
- Janvier 2017: revue cadre (modèle)
- Mars 2017: évaluation de la ressource
  - Utilisation du nouveau modèle
  - Mise à jour des données 2013, 2014, 2015, 2016
    - Débarquements
    - Données biologiques
    - Relevé des œufs

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Résumé de l'évaluation de 2014

- Les **débarquements commerciaux** rapportés des sous-régions 3 et 4 de l'OPANO ont considérablement diminué au cours des dernières années.
- Les **débarquements américains** (commerciaux et récréatifs) des sous-régions 5 et 6 de l'OPANO ont aussi connu une baisse importante au cours des dernières années.
- La **longueur à 50 % de maturité** est supérieure à la longueur minimale de capture autorisée de 250 mm. Le fait que les captures peuvent cibler des poissons immatures représente une pression additionnelle sur le stock.
- La **condition corporelle** baisse depuis 2003 et semble associée à la température de la CIF et à l'abondance/phénologie d'espèces clés de copépodes. Le recrutement du maquereau semble favorisé par de fortes abondances et un développement hâtif du *Calanus finmarchicus*.
- **L'indice d'abondance des œufs** de maquereau a chuté entre 1993 et 1998. Après une hausse causée par l'arrivée de la forte classe d'âge de 1999, l'indice a de nouveau chuté à partir de 2002 pour atteindre les plus faibles valeurs de la série, ce qui reflète l'effondrement du stock.
- Une **analyse séquentielle de population** calibrée par l'indice d'abondance des œufs indique que la **biomasse reproductrice** de maquereau est à la baisse depuis le milieu des années 2000 pour atteindre en 2013 le minimum historique.
- Selon l'ASP, cette baisse de biomasse a été occasionnée par des niveaux de mortalités par la pêche plusieurs fois supérieurs aux niveaux historiques soutenables. Il est probable que le stock soit présentement en situation de surpêche du recrutement.
- Étant donné la **situation critique du stock**, la priorité est à la reconstruction : (1) Selon les projections basées sur une mortalité par pêche moyenne soutenable découlant de l'évaluation analytique, les captures annuelles de 2014 et 2015 ne devraient pas dépasser 800 t; (2) Dans la situation actuelle du stock, il est encore plus important de connaître et de contrôler les pêches pour appât et récréatives.

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Cadre de référence 2017

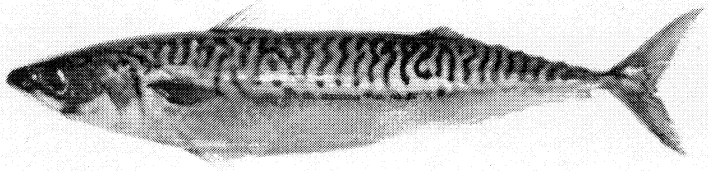
Formuler un avis scientifique pour la gestion du maquereau bleu des sous-régions 3 et 4 de l'OPANO (côte est canadienne) pour les saisons de pêche 2017 et 2018. Cet avis comprendra :

- l'analyse des statistiques de la pêche commerciale des saisons 2014, 2015 et 2016 (distribution globale des débarquements, ventilation par province, division de l'OPANO, engin de pêche, etc...);
- l'analyse des données biologiques recueillies par des échantillonneurs dans les principaux ports de débarquements ou en mer par des observateurs (structure de taille et calcul d'indicateurs biologiques);
- l'analyse de l'indice du relevé des œufs pour les années 2014, 2015 et 2016 ;
- une revue des principales sources d'incertitude;
- des considérations écosystémiques et environnementales ;
- présentation des résultats d'un modèle statistique de captures à l'âge qui inclut des estimations de capture manquante (suite à une revue cadre en janvier 2017) basé sur la capture à l'âge canadienne et l'indice du relevé des œufs. Ces résultats vont inclure les mortalités par la pêche, les abondances et les biomasses reproductrices, la mise à jour des points de référence, la trajectoire du stock et des prédictions de captures pour 2017 et 2018 selon différents scénarios de mortalité par la pêche.
- L'identification des indicateurs et des déclencheurs pour les années intérimaires sans évaluation de stock;
- L'identification et la priorisation de travaux de recherche à considérer pour le futur;
- Les perspectives et/ou recommandations pour 2017 et 2018 basées sur les données disponibles.

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Bref survol de la structure des populations de maquereau / *Brief overview of mackerel population structure*

Martin Castonguay
IML



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Background

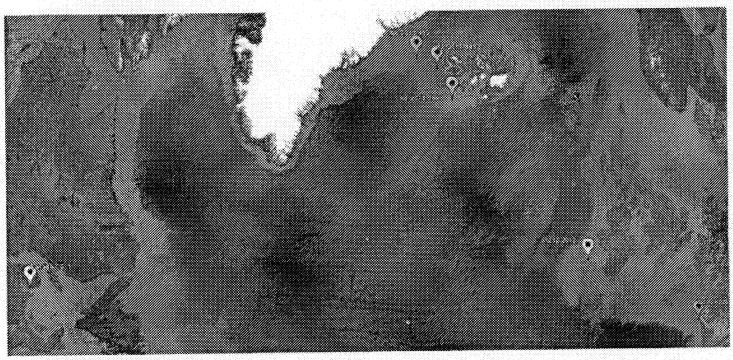
- Les stocks de maquereau en Europe sont très abondants. Le CIEM a recommandé un TAC de 773 842 t pour 2016. / *Mackerel stocks in Europe at very high levels. ICES advised that TAC should not be higher than* ***773,842 t*** *in 2016.*
- Les stocks de maquereau au Canada sont au plus faible niveau jamais mesuré, déterminé en 2014 sous le PRL. Les TAC récents au Canada à **8000 t**. / *Mackerel stocks in Canada at the lowest level ever recorded, assessed in 2014 to be below Blim. Recent TACs in Canada at 8000 t.*
- Le maquereau maintenant abondant dans le centre de l'Atlantique (Islande et Groenland): TAC **85 000 t** au Groenland en 2015 / *Mackerel now abundant in the Central Atlantic (Iceland & Greenland) : TAC 85,000 t in Greenland in 2015*
- D'où provient ce maquereau du centre de l'Atlantique? / *Where does this Central Atlantic mackerel come from?*

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Background

Deux études génétiques-génomiques récentes basées sur l'ADN-mt et les SNP / Two recent studies based on mt-DNA and SNPs:

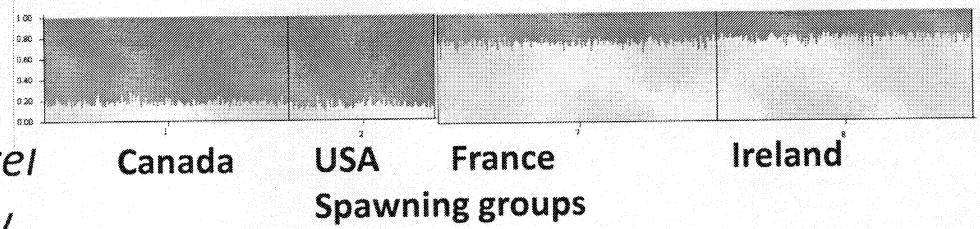
- Rodriguez-Ezpelata et al. (2016)
- Helyar et al. (2013; in prep)



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Europe vs Amérique du Nord

- La population de maquereau de l'Amérique du Nord est génétiquement distincte de celle de l'Europe (ADN-mt)/ *The North American mackerel population is genetically distinct from the European one (mt-DNA)*



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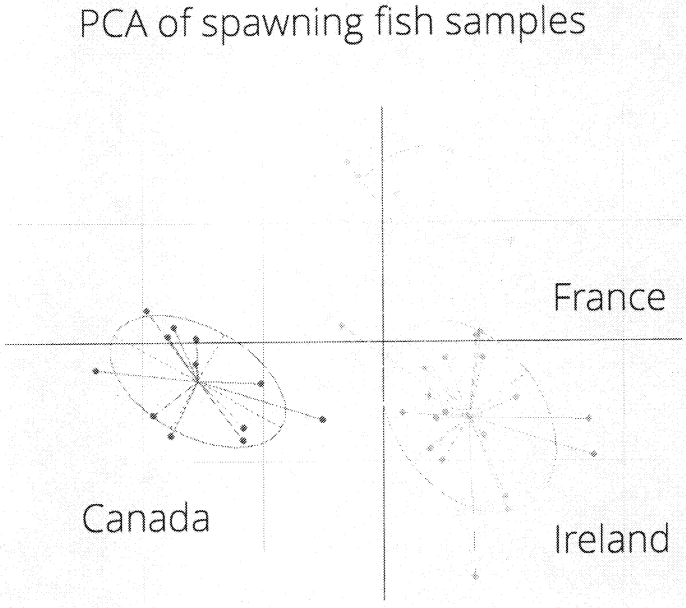
Amérique du Nord

- Les stocks canadiens et américains ne semblent pas distincts génétiquement bien que les études en question incluent peu d'échantillons de l'Amérique du Nord / *Canadian and American stocks do not seem genetically distinct although the studies in question include few samples from North America*

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Europe

- Il semble y avoir une structure de stock subtile au sein de la population européenne / There seems to be a weak stock structure within the European population



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Centre de l'Atlantique

- Le maquereau de l'Islande et du Groenland provient exclusivement de l'Europe / *Mackerel from Iceland and Greenland originate exclusively from Europe*

	Canada	Europe	Iceland
Canada	-	0.000000	0.000000
Europe		-	0.075595
Iceland			-

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Recherche à venir / Upcoming research

- Collaboration pour améliorer les études génétiques/génomiques / *Collaboration to improve genetic/genomic studies*
- Augmenter le nombre d'échantillons de l'Amérique du Nord / *Increase number of samples from North America*

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Questions de recherche / Research questions

- Réexaminer avec des outils moléculaires modernes les différences génétiques/génomiques entre les groupes reproducteurs canadiens et américains / Reexamine with modern molecular tools genetic differences between Canadian and US spawning groups

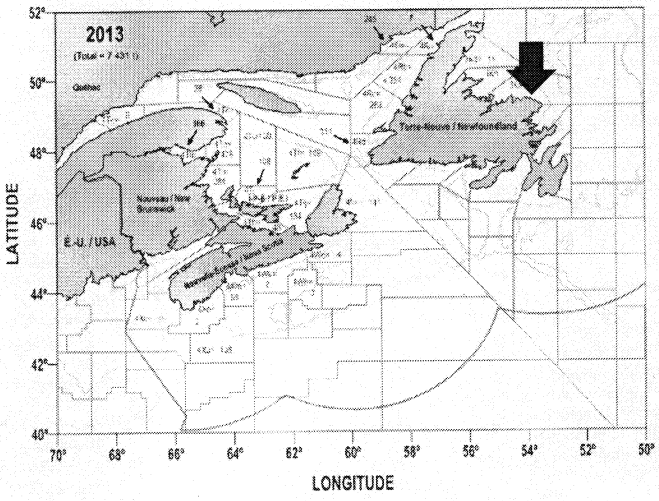
- Déterminer si la population abondante de l'Europe s'est dispersée en Amérique du Nord / *Determine if the abundant European population has dispersed to North America*

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Questions de recherche / Research questions

D'où proviennent les jeunes de l'année capturés au nord de Terre-Neuve (3K) ? / Where do young-of-the-year captured north of Newfoundland (3K) come from?



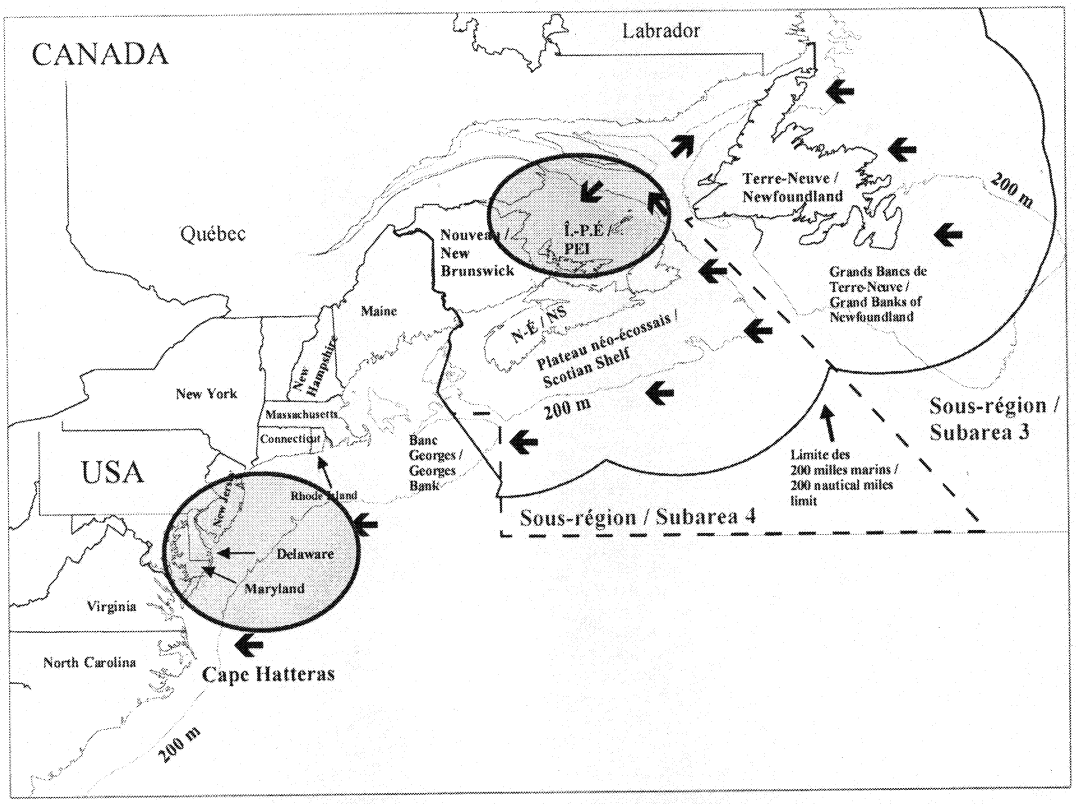
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Biologie

- Pélagique
- Migratrice
- 26 cm après 2 ans = maturité
- Plein recrutement ~3 ans
- « batch spawners » (juin)
- 2 composantes reproductrices
- 1 stock transfrontalier

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Distribution et migration



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Problématiques

Prises non-rapportées:

- Maquereau utilisé comme appât pour la pêche au crabe et homard
- Une grande partie des prises ne sont pas rapportées: appât pour usage personnel, ventes de pêcheur à pêcheur, pêche récréative, logbooks non remplis
- Différences entre régions de gestion
- Cela crée un problème **majeur** affectant la qualité de l'évaluation

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Considérations environnementales: 2013

- Tendance commune dans les séries temporelles d'abondance des larves récoltées dans le sud du golfe du Saint-Laurent 1983 – 2012

- baisse importante entre 1983 et 1995 suivie d'une période stable jusqu'en 2004; baisse à nouveau observée jusqu'en 2010 suivie d'une légère hausse jusqu'en 2012

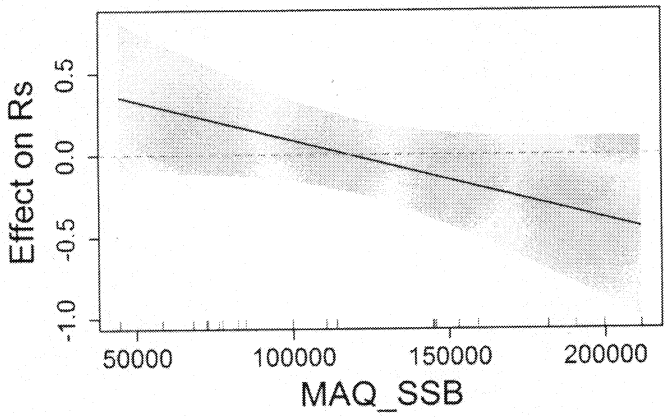
- Les espèces qui sont le plus fortement associées à cette tendance sont la morue, le capelan, la limande à queue jaune, le maquereau et le sébaste (toutes des espèces commerciales...).

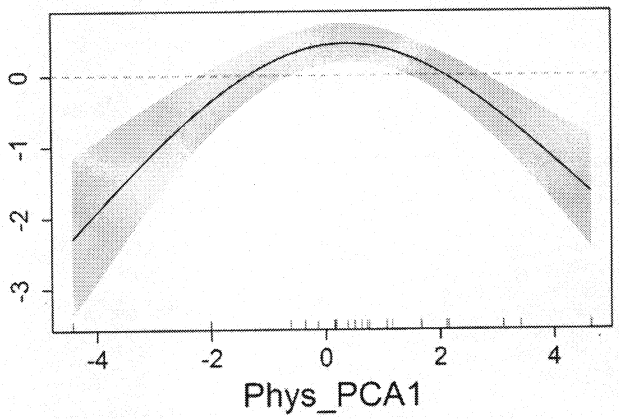
- Deux variables explicatives ont été identifiées: (1) la température de la CIF, et (2) l'indice d'abondance du plancton.

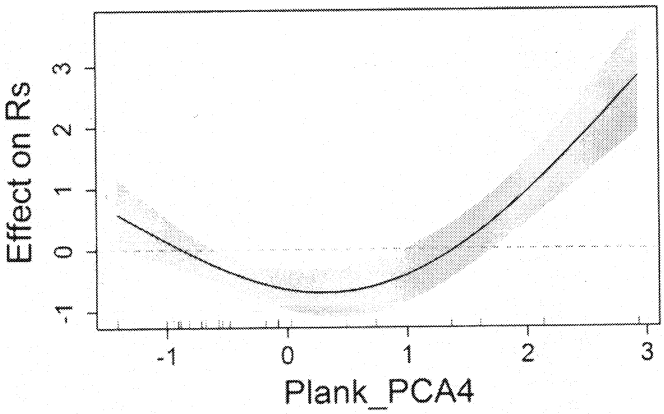
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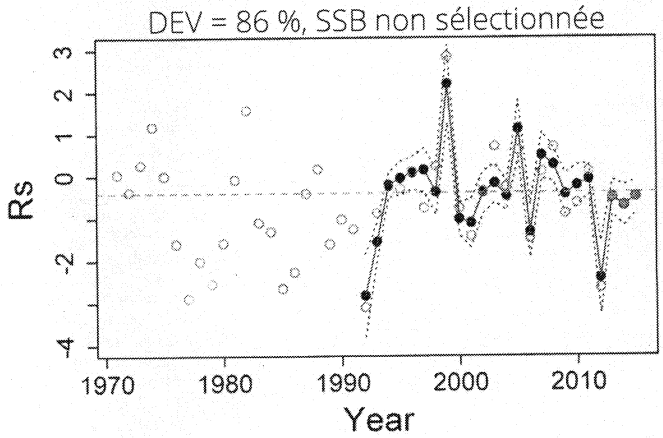
Taux de recrutement (Rs): maquereau







DEV = 86 %, SSB non sélectionnée



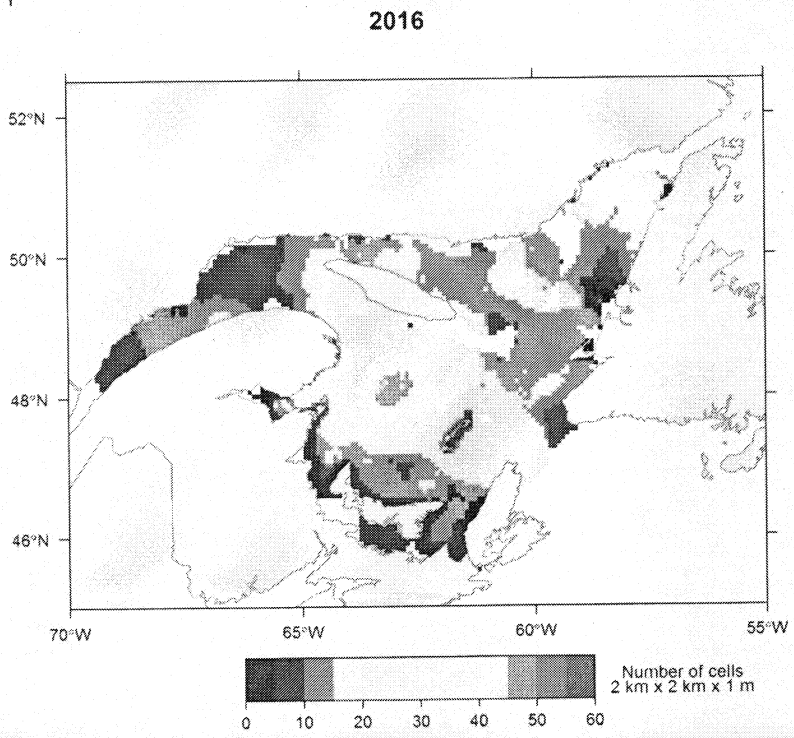
Plourde et al. 2015

001227

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Considérations environnementales

- Lien entre la température et la distribution spatiale, les moments de la migration et de la ponte
- Importance du volume d'eau entre 6 et 16°C (0-100m)

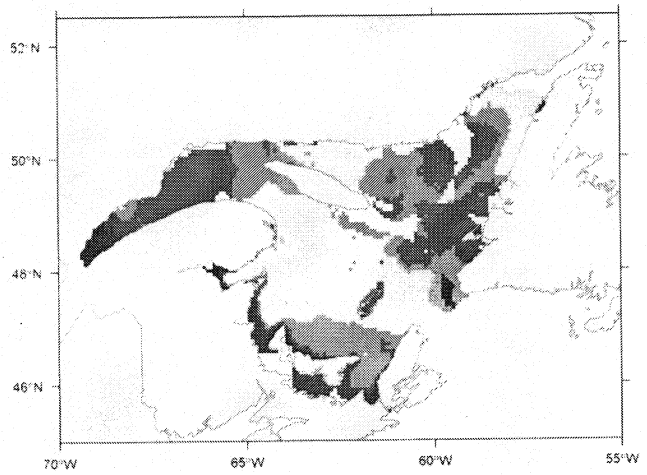


Travaux préliminaires de S. Plourde et C. Lehoux

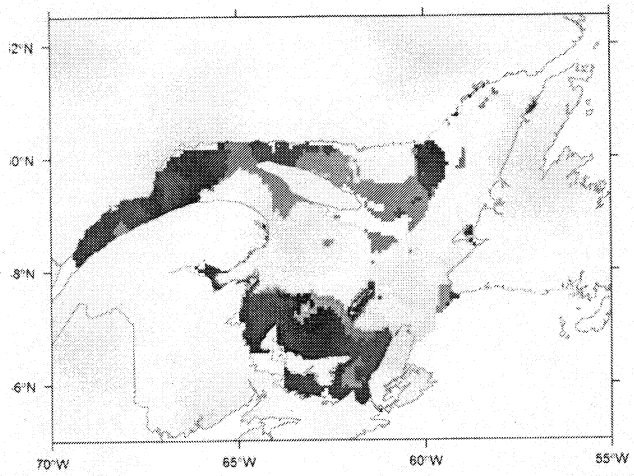
001228

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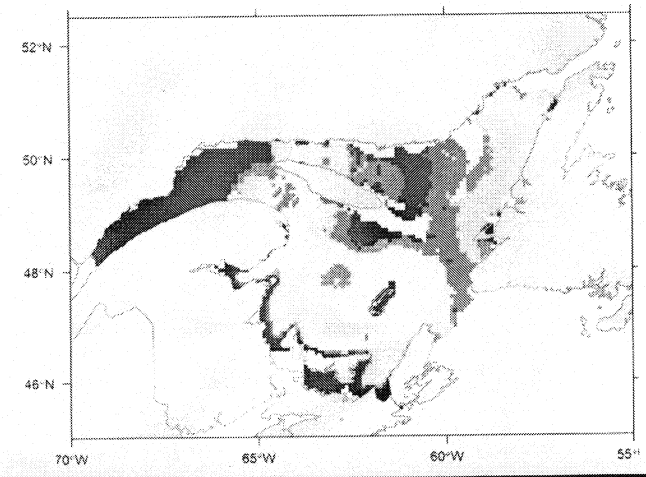
2001



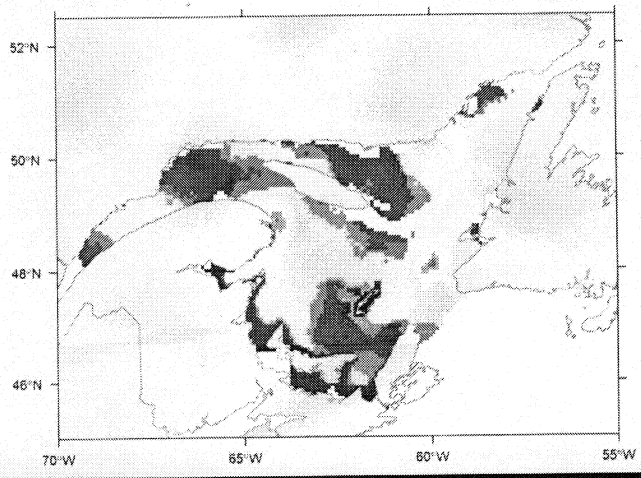
2005



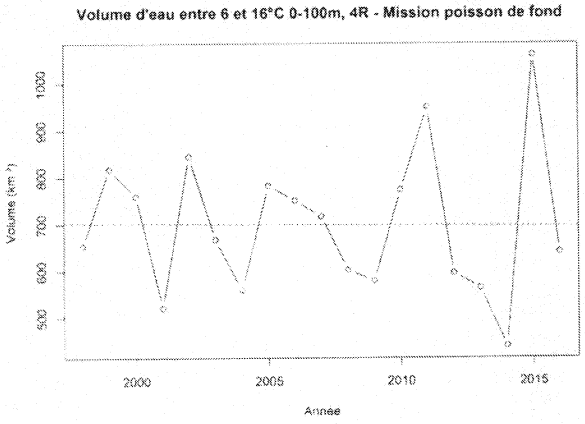
2010

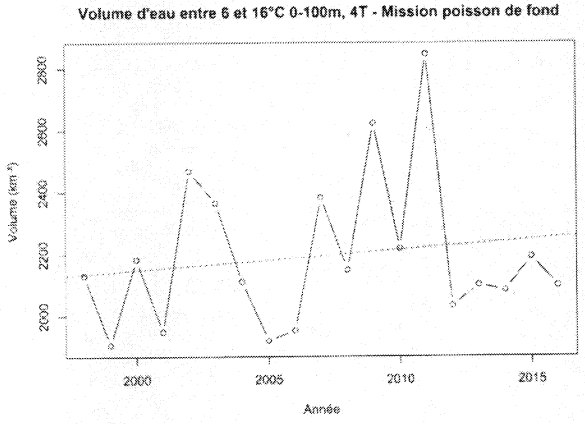


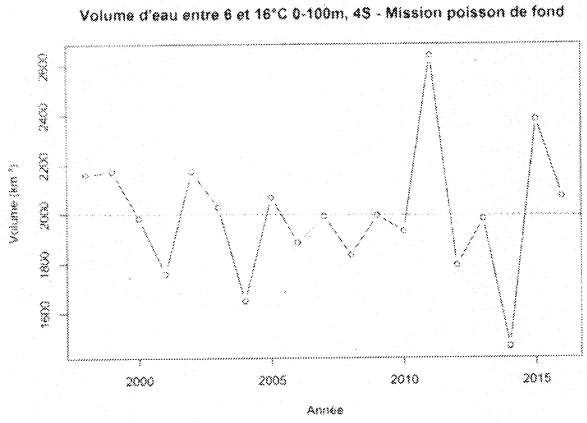
2015



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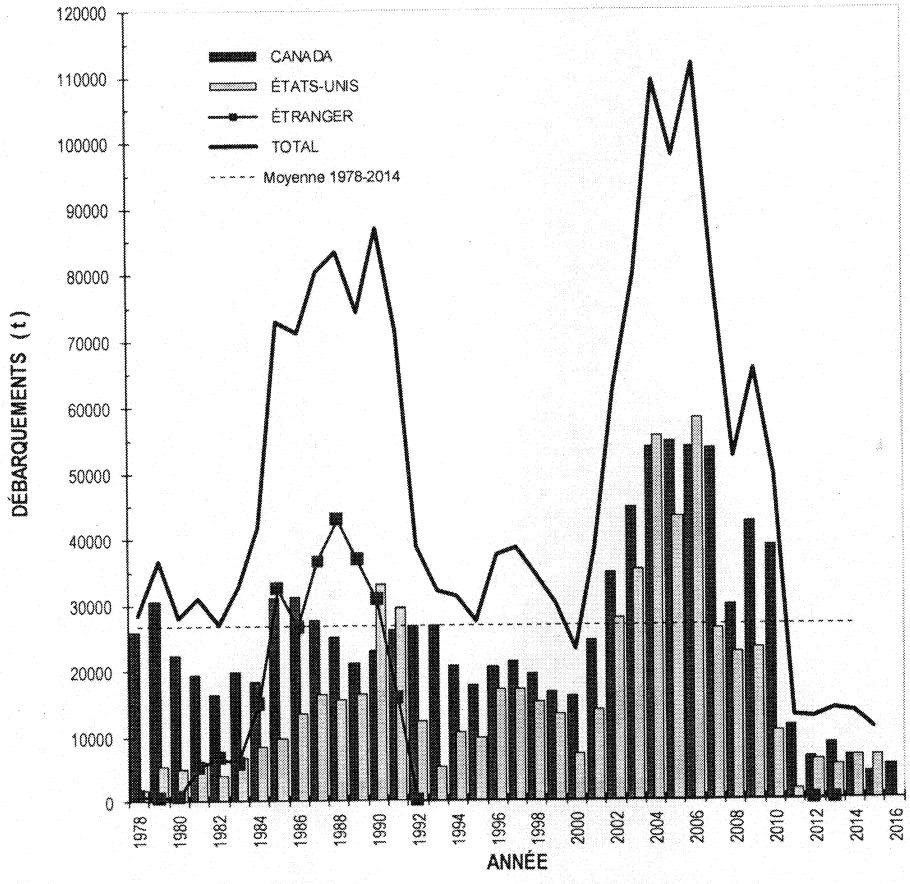
→ Forte variabilité spatiale et inter-annuelle

→ Pas de tendance claire entre régions

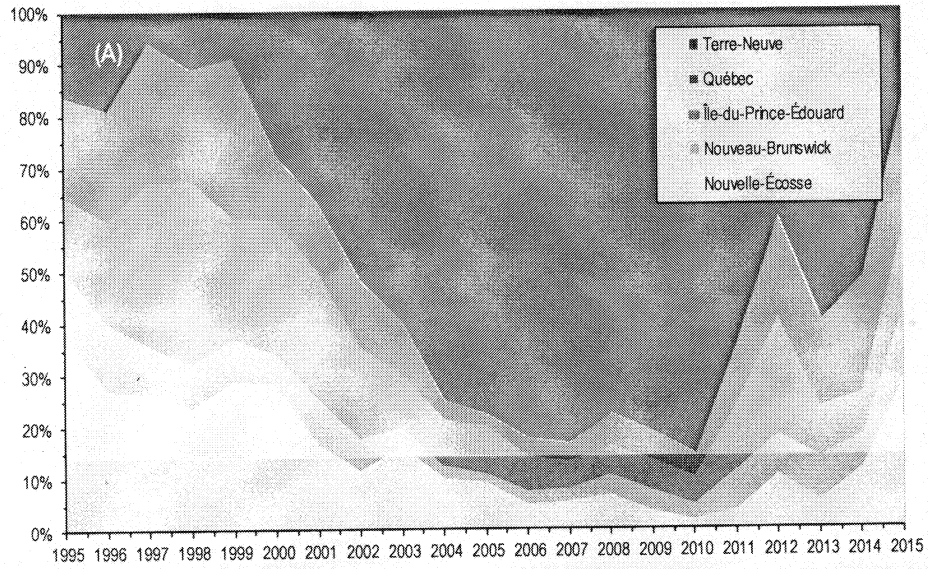
→ Travaux futurs sur la qualité de l'habitat des œufs et des larves (température, disponibilité des proies planctoniques)

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Pêche commerciale 2013-2016

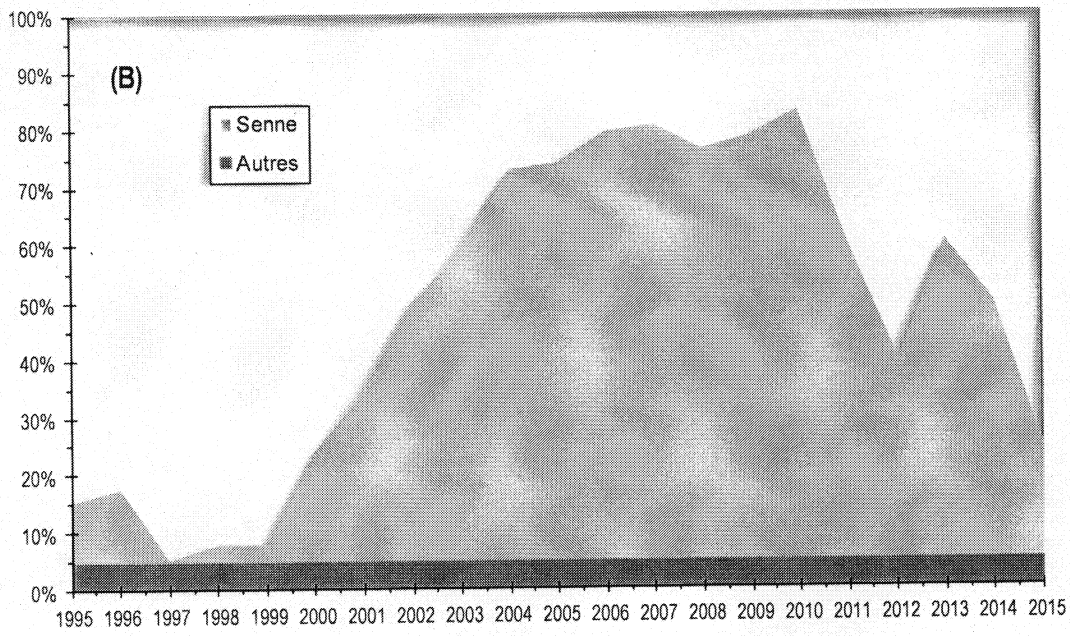


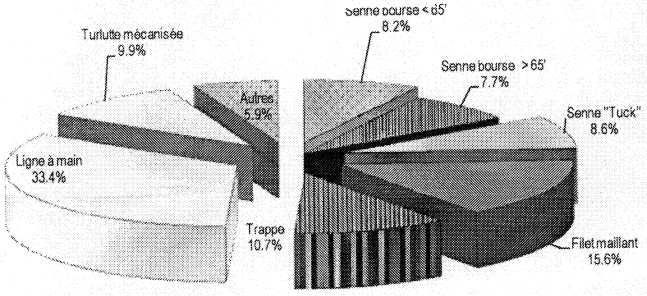
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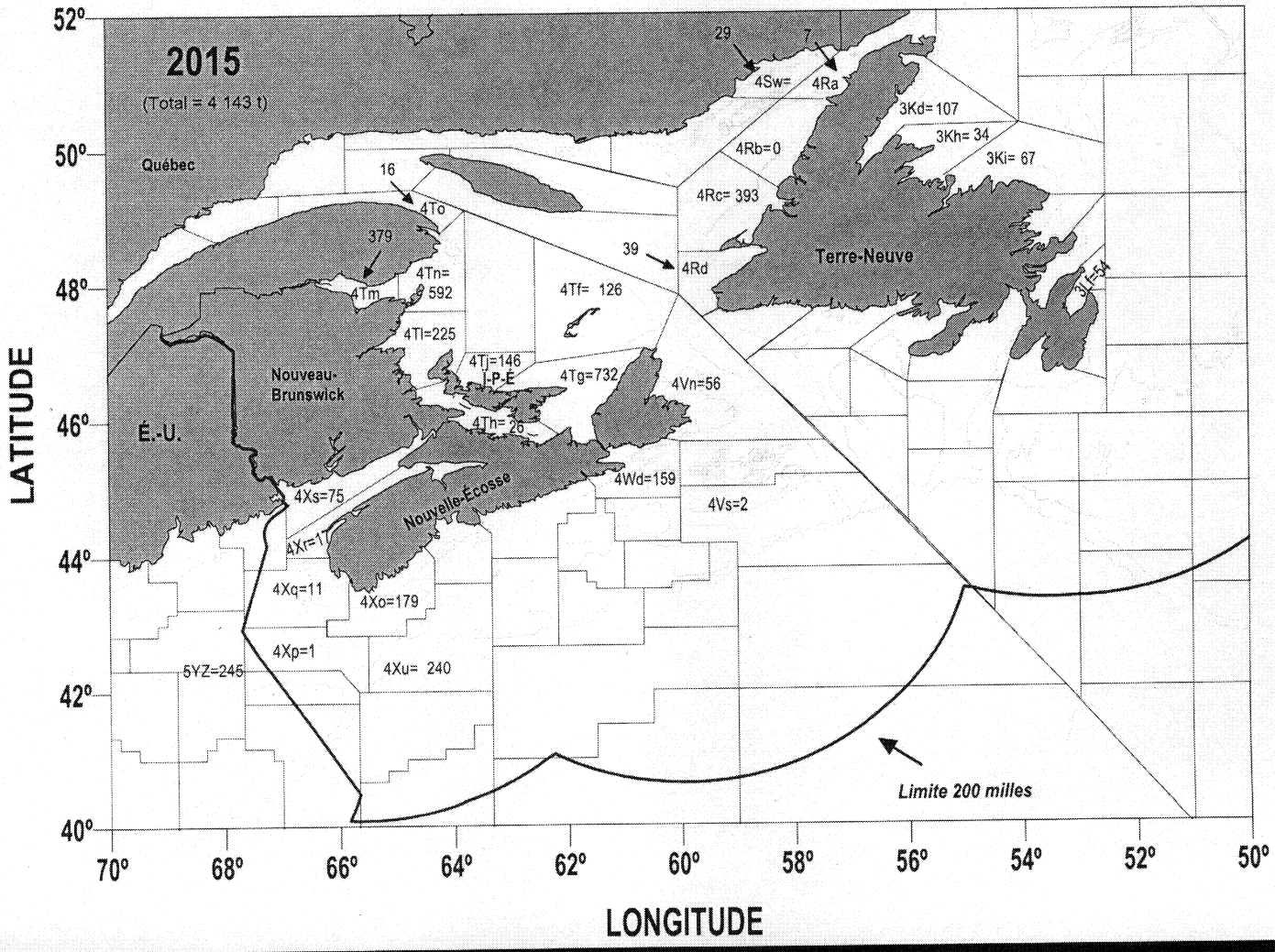
PROVINCE	ANNÉE								MOYENNE
	2009	2010	2011	2012	2013	2014	2015 [1]	2016 [1]	(1995-2014)
Nouvelle-Écosse	1 454	666	416	683	450	770	1183		3 455
Nouveau-Brunswick	1 762	1 260	903	524	766	449	571		1 464
Île-du-Prince-Édouard	2 463	1 959	1 400	1 478	825	527	643		3 541
Québec	2 316	1 709	1 345	1 278	1 453	1502	1045	844	2 756
Terre-Neuve	34 237	33 159	7 337	2 619	5 169	3432	701	4513	17 516
Non déterminé	0.2	0.2	0	0	0	0	0		5
TOTAL	42 231	38 753	11 400	6 582	8 663	6680	4143	5357	

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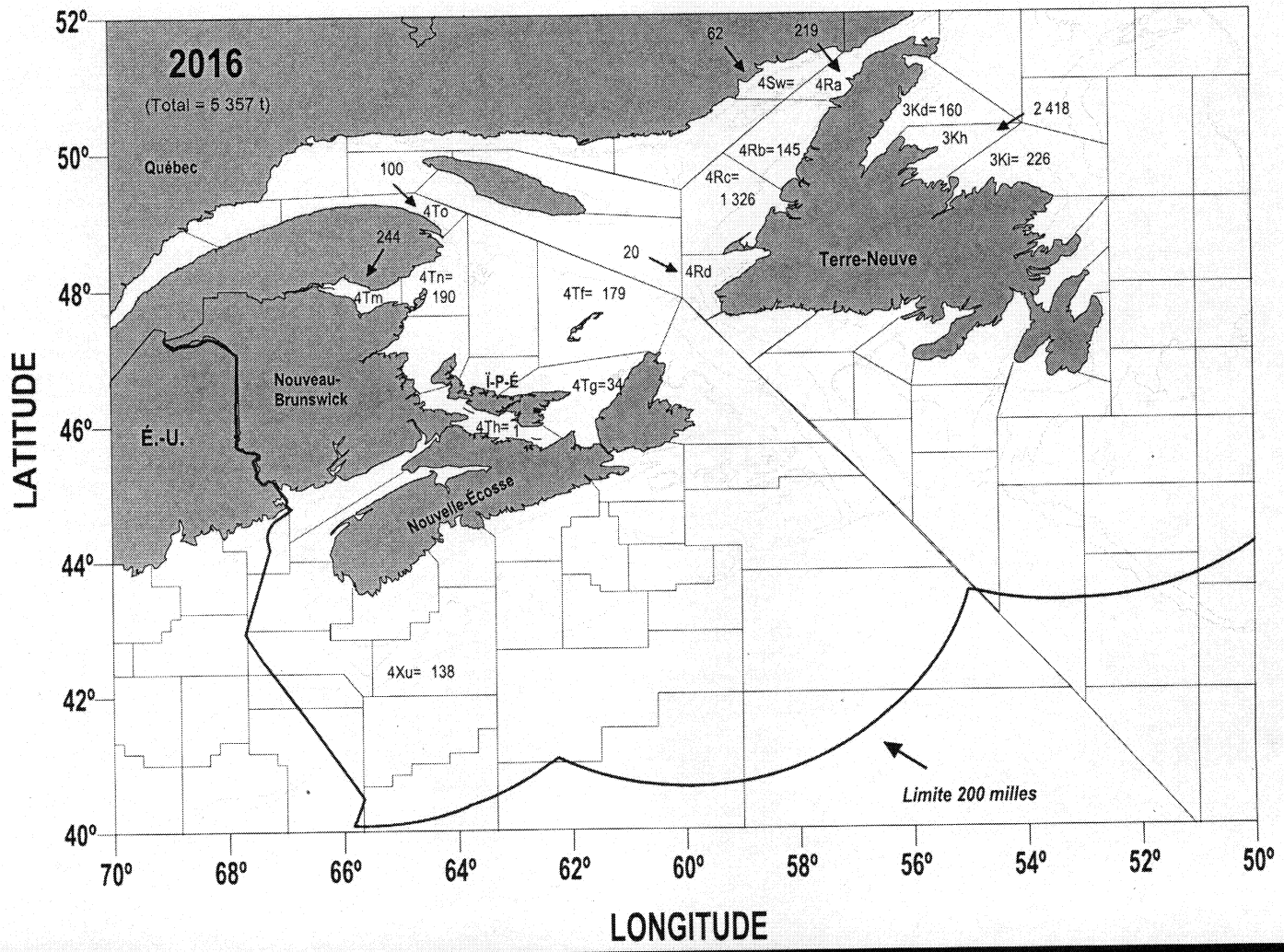


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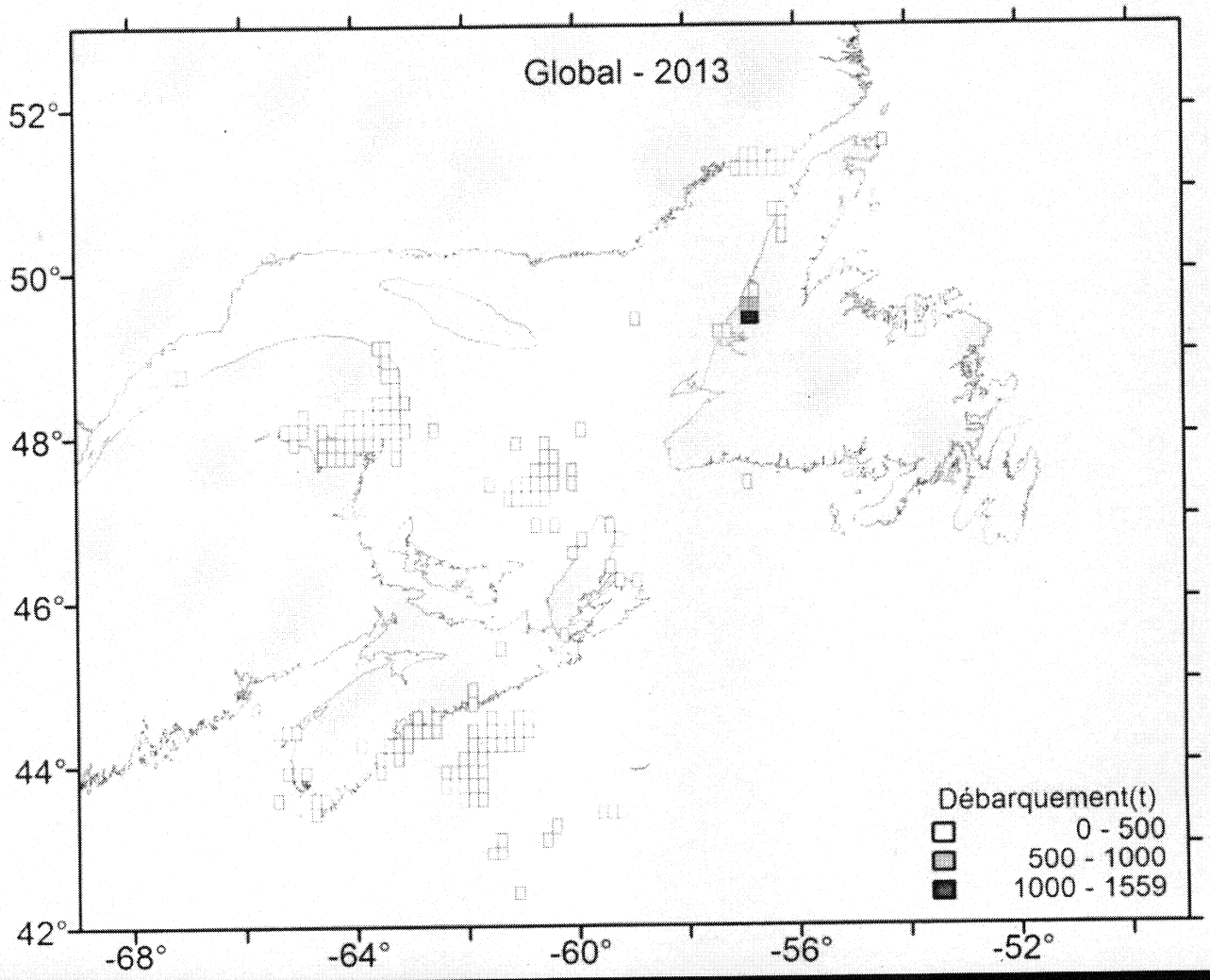


001234

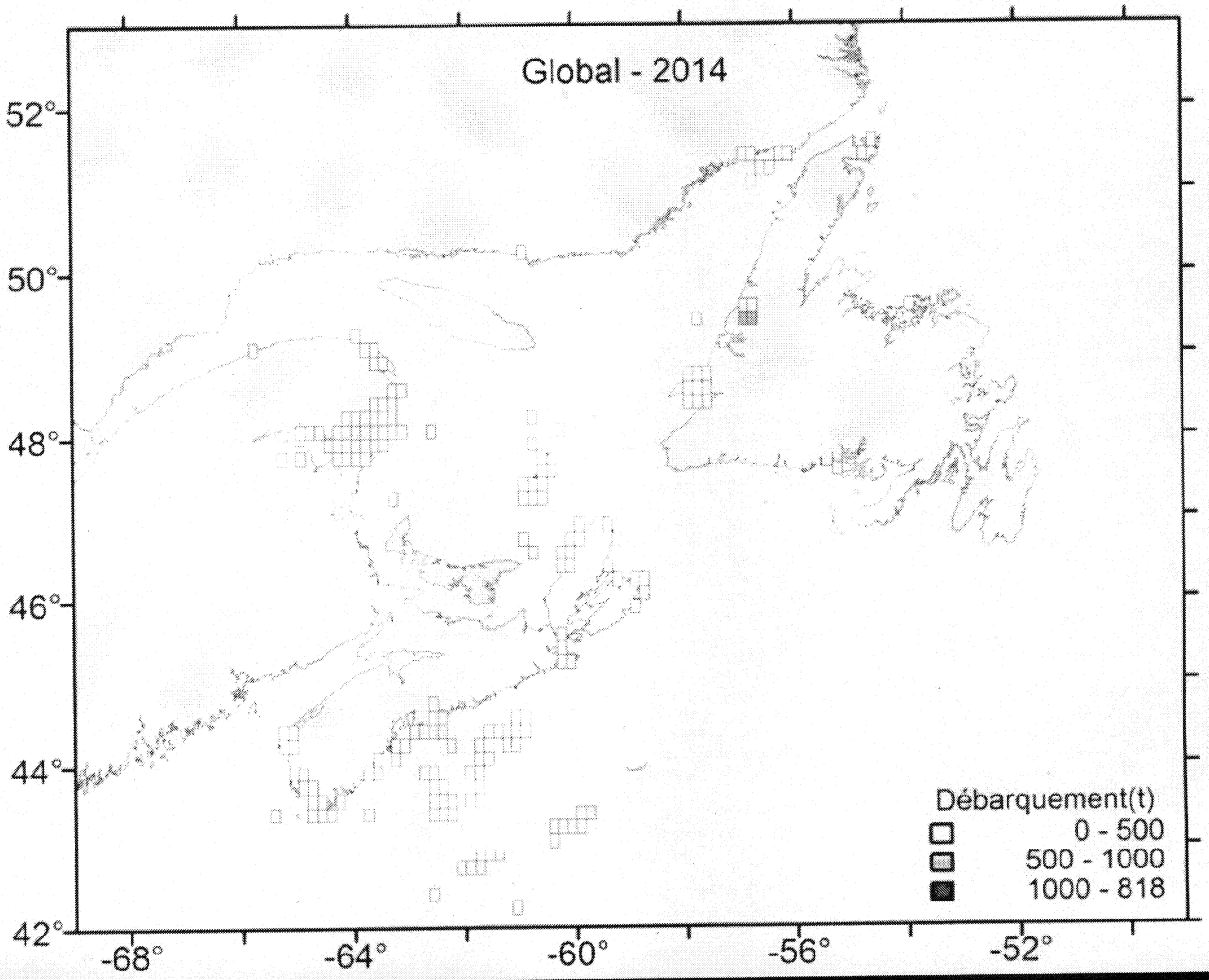
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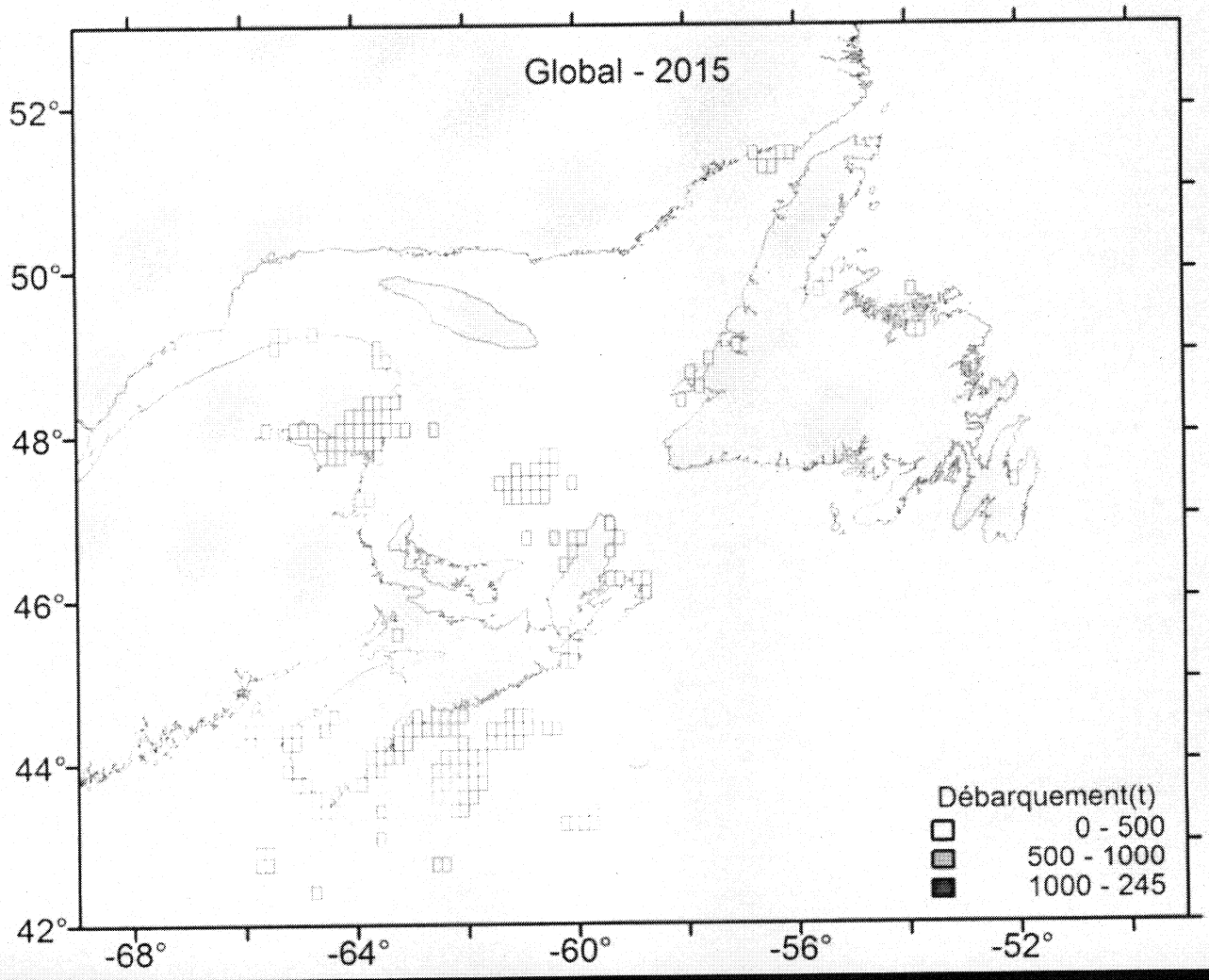
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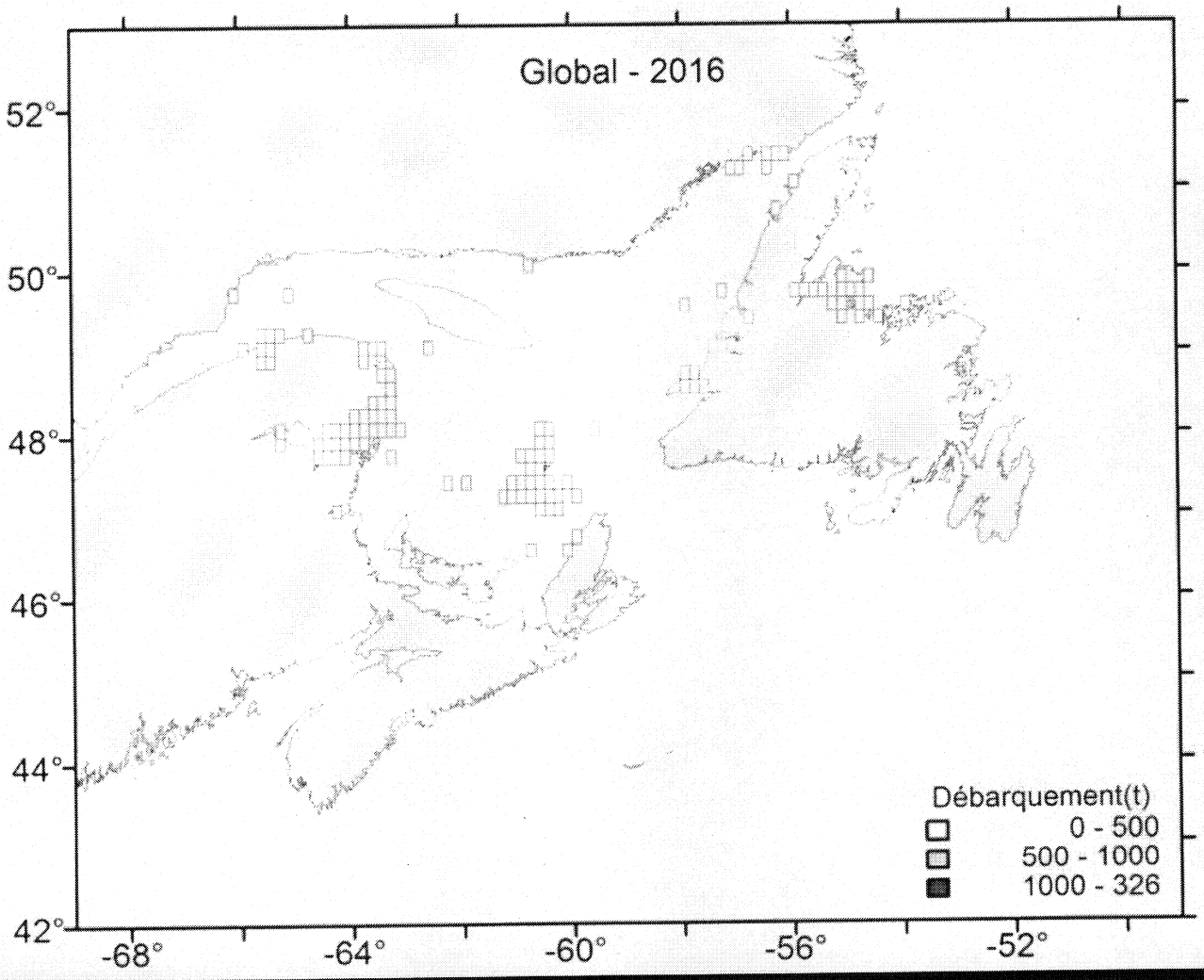
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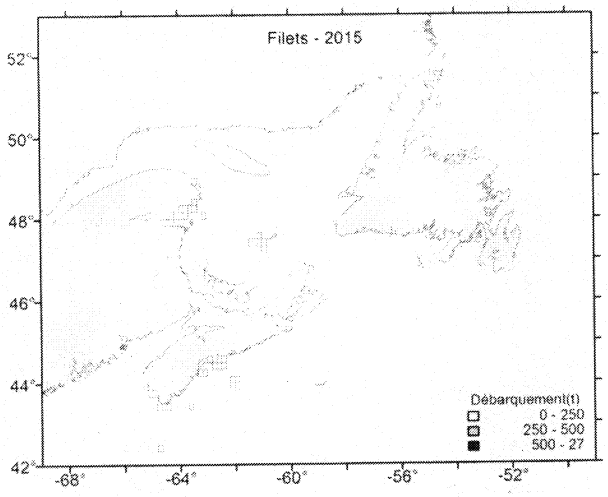
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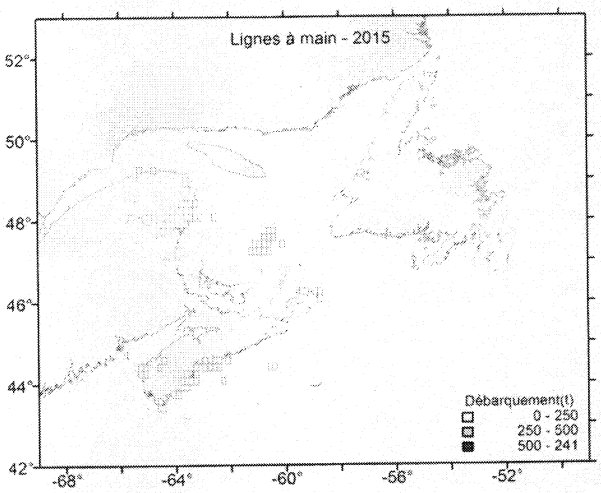


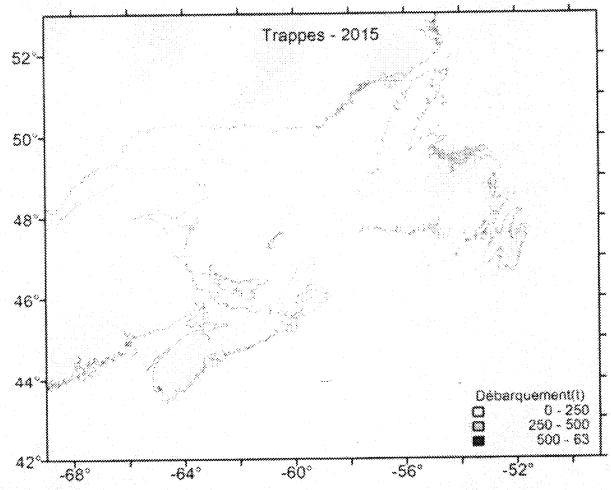
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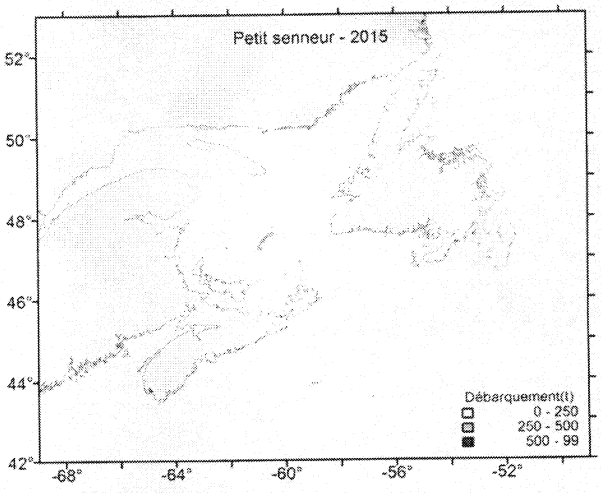


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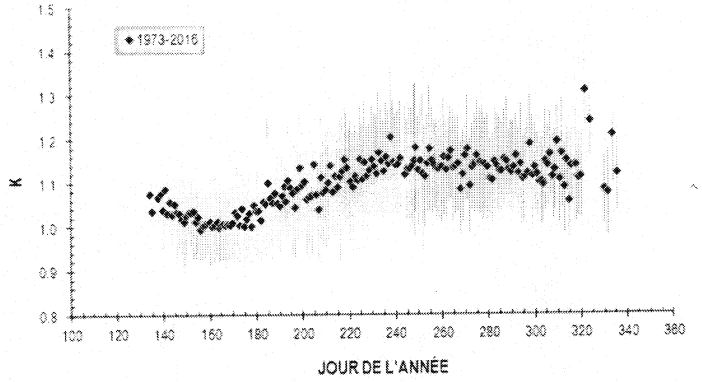




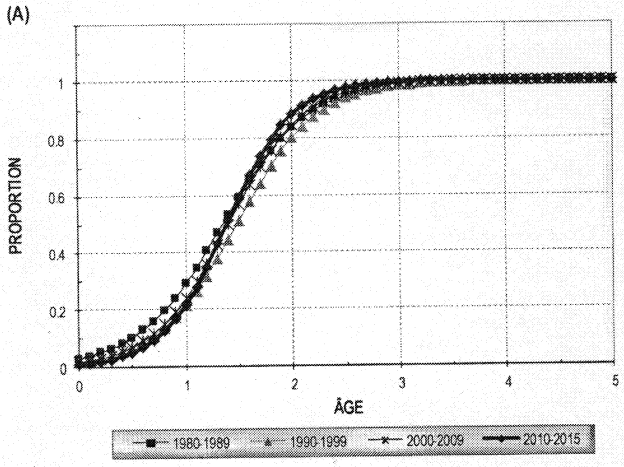
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Indicateurs biologiques 2013-2016

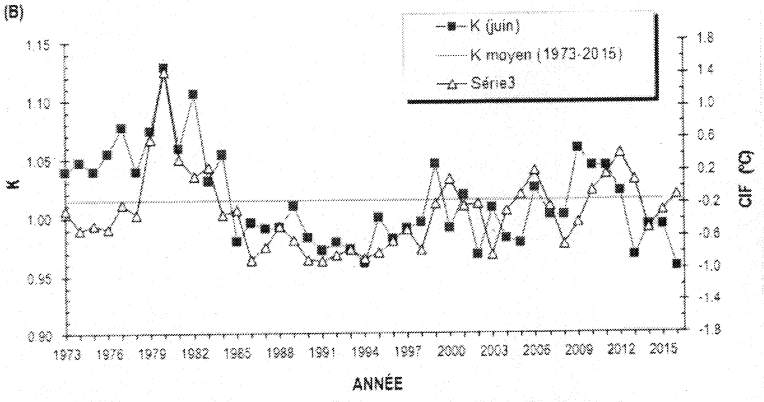
(A)



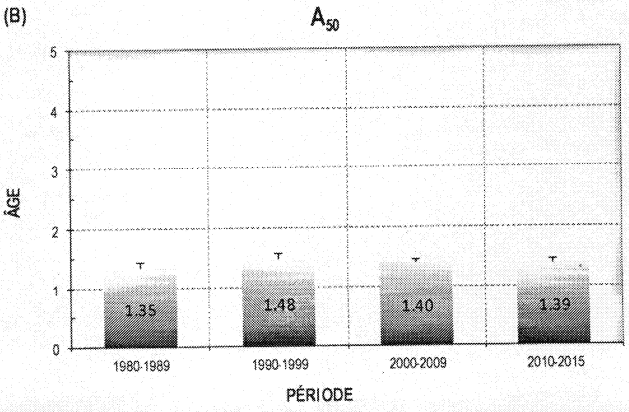
(A)



(B)

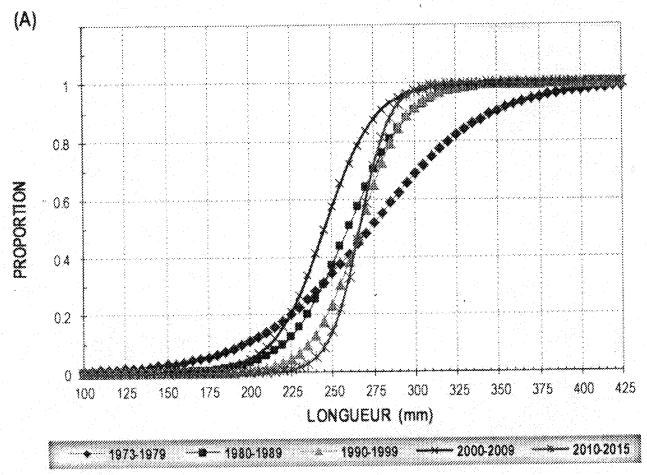


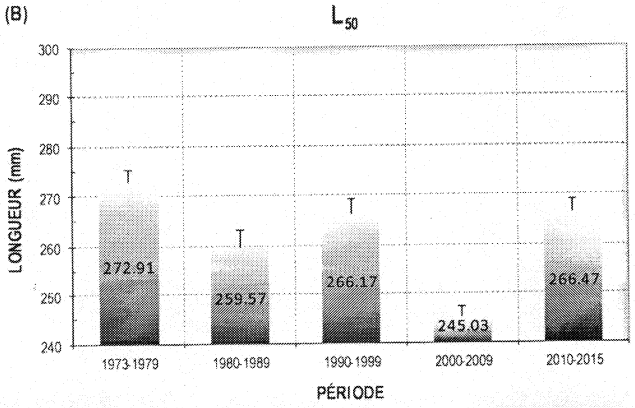
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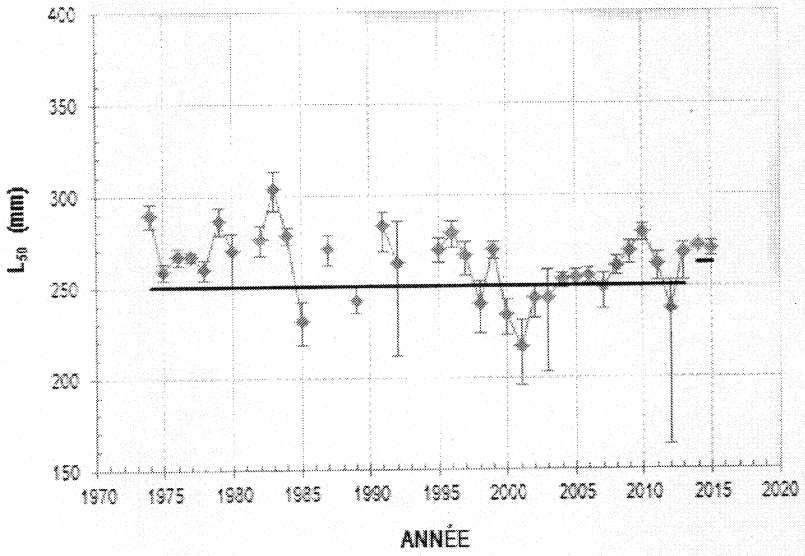


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Longueur à 50% maturité





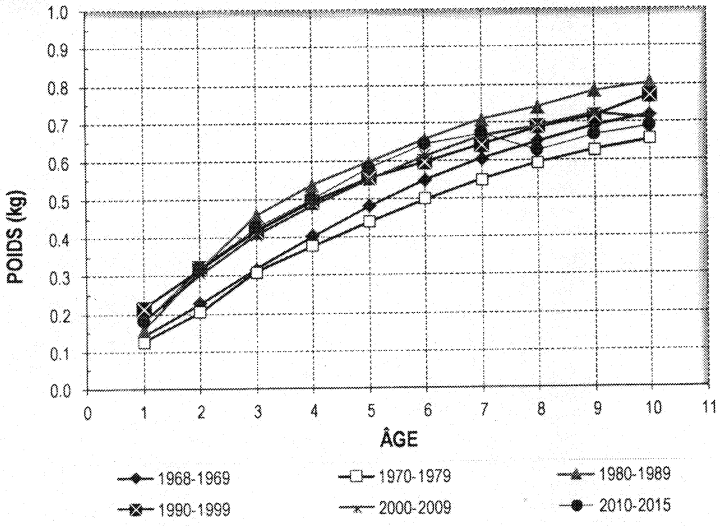


001242

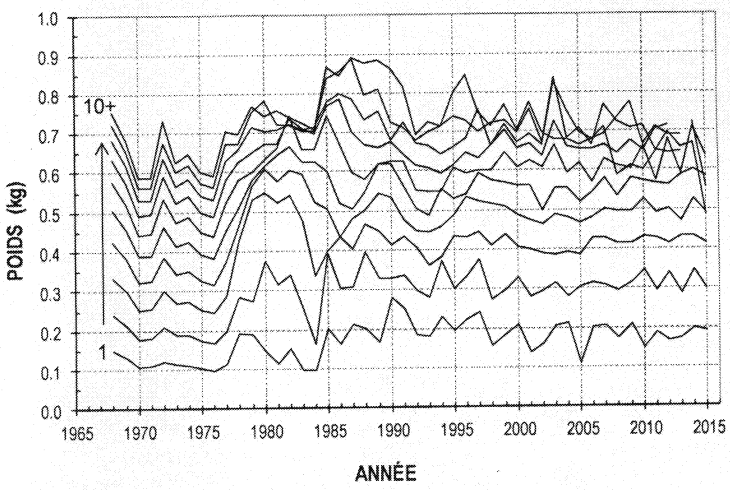
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Poids à l'âge

(A)

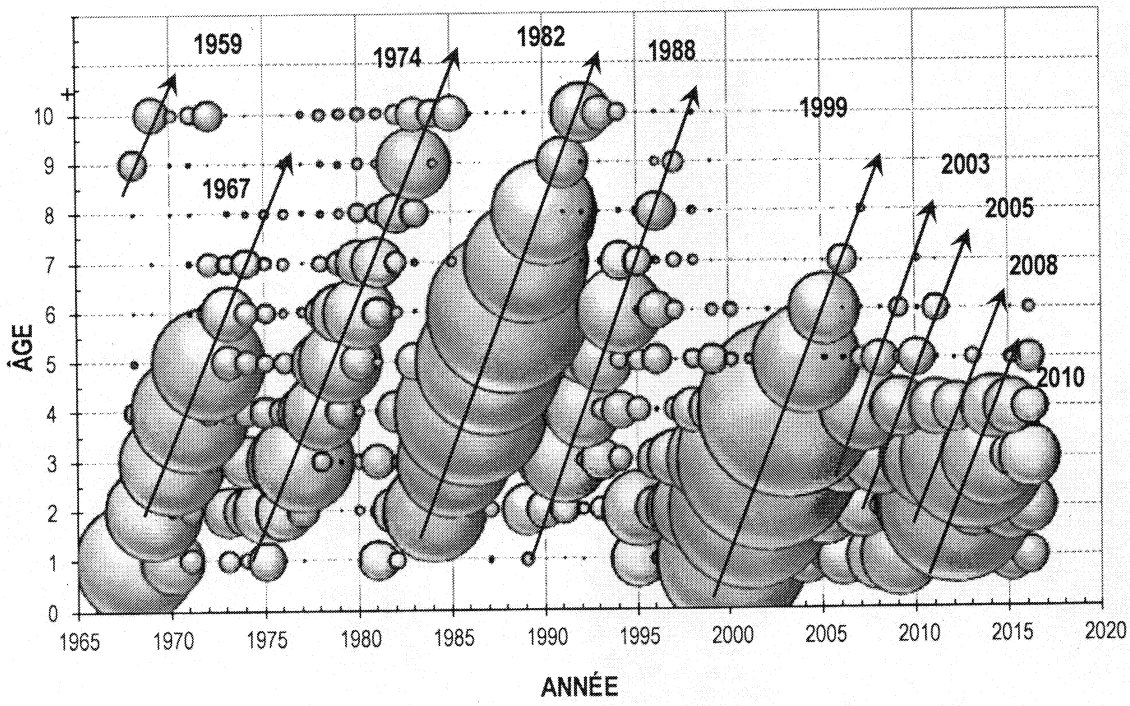


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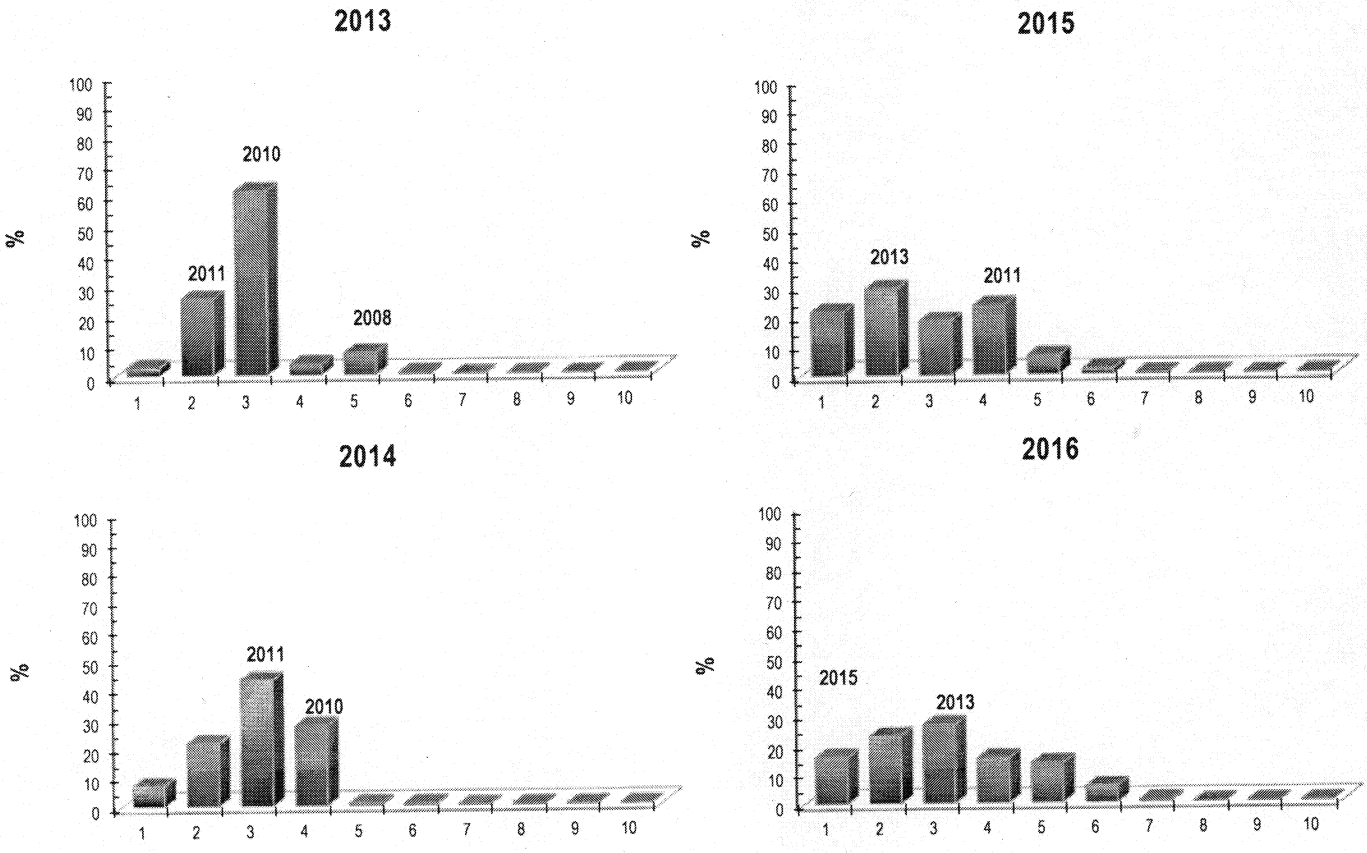
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Capture à l'âge



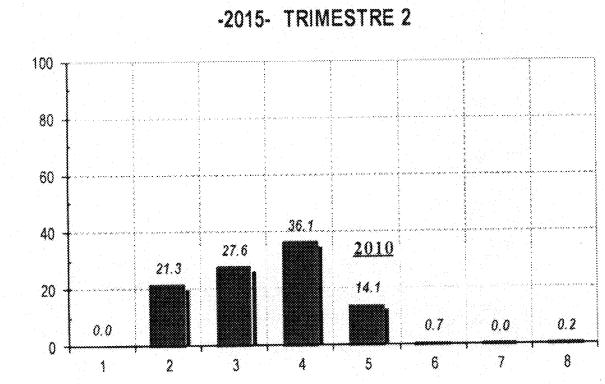
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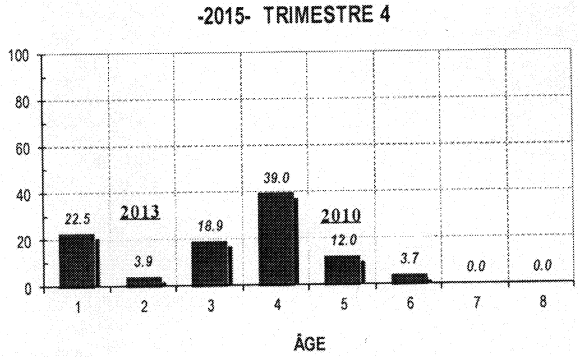
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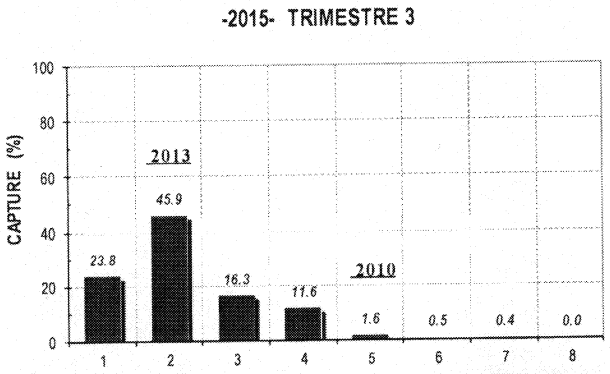


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Capture à l'âge: variabilité intra-annuelle

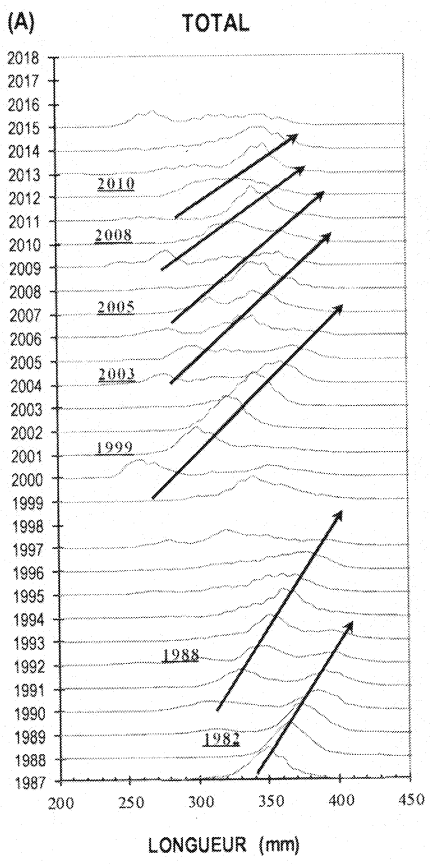


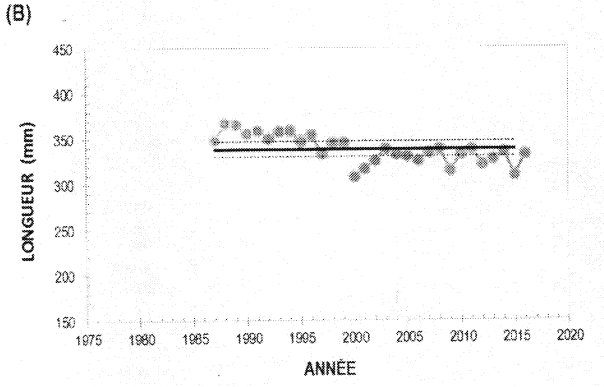


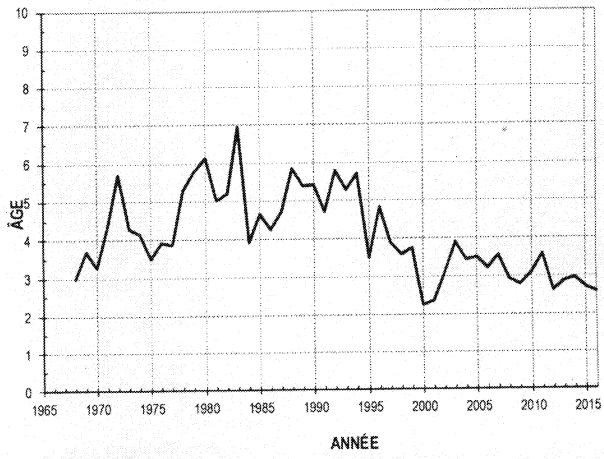


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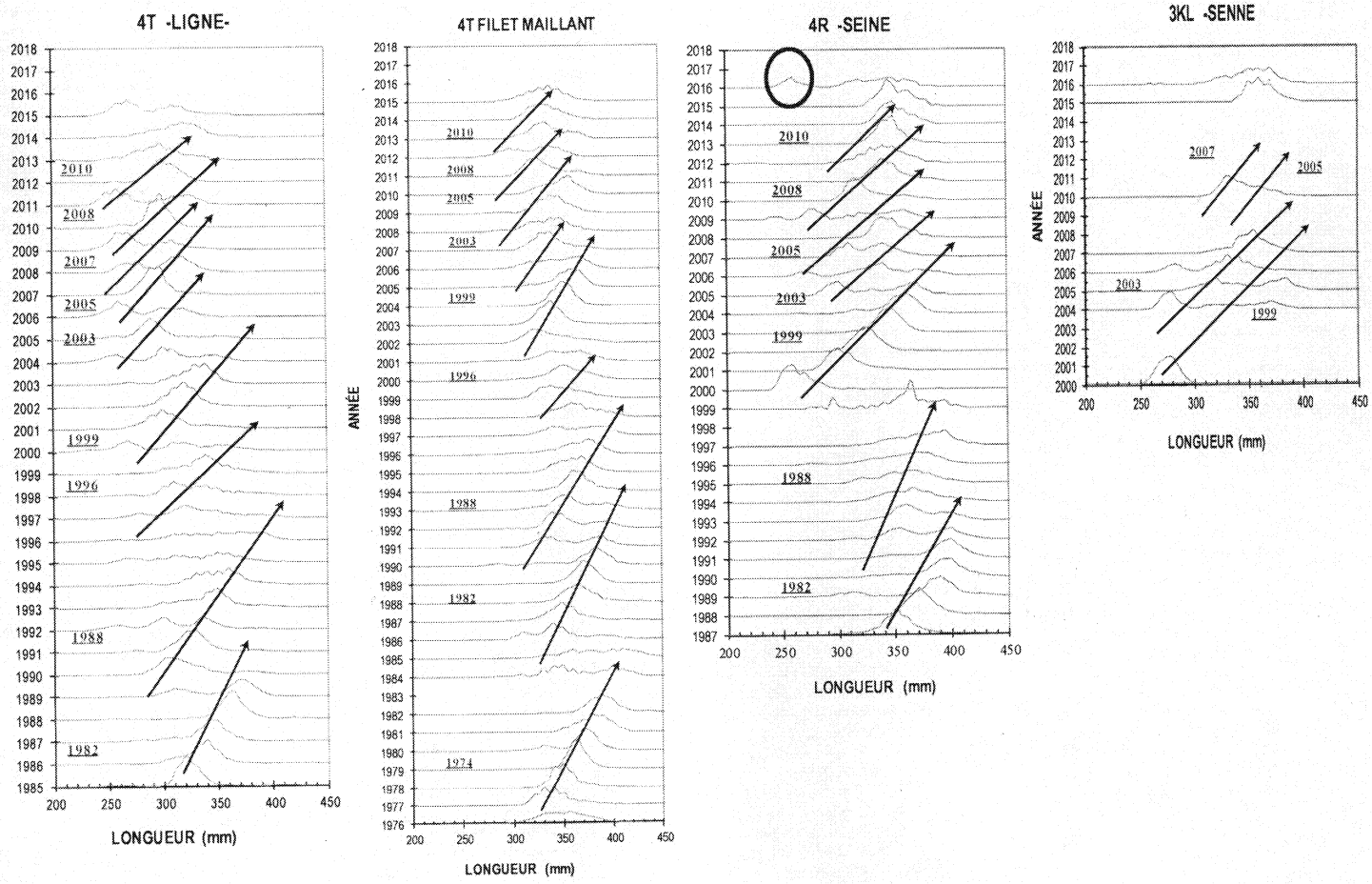
Fréquences de longueur





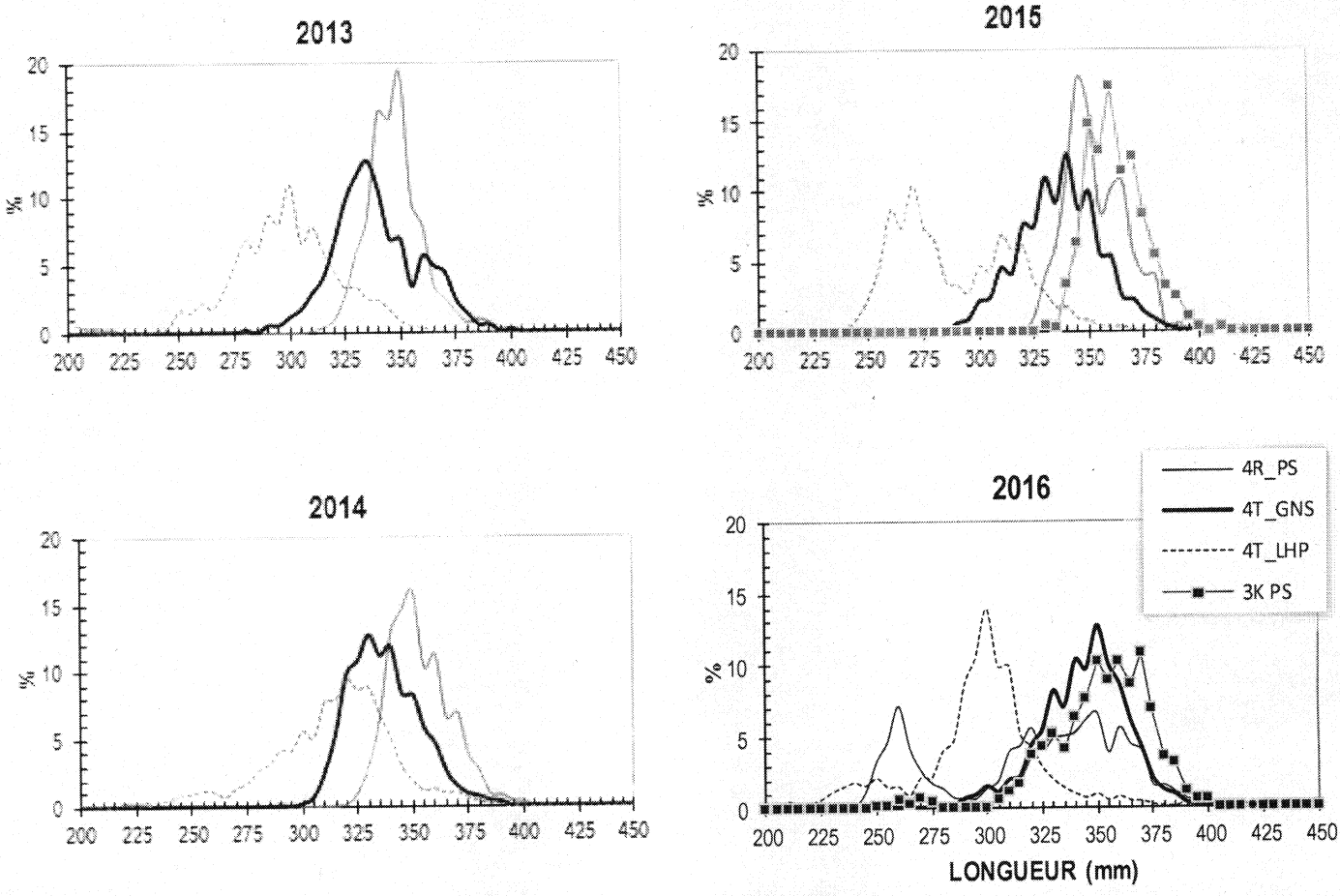


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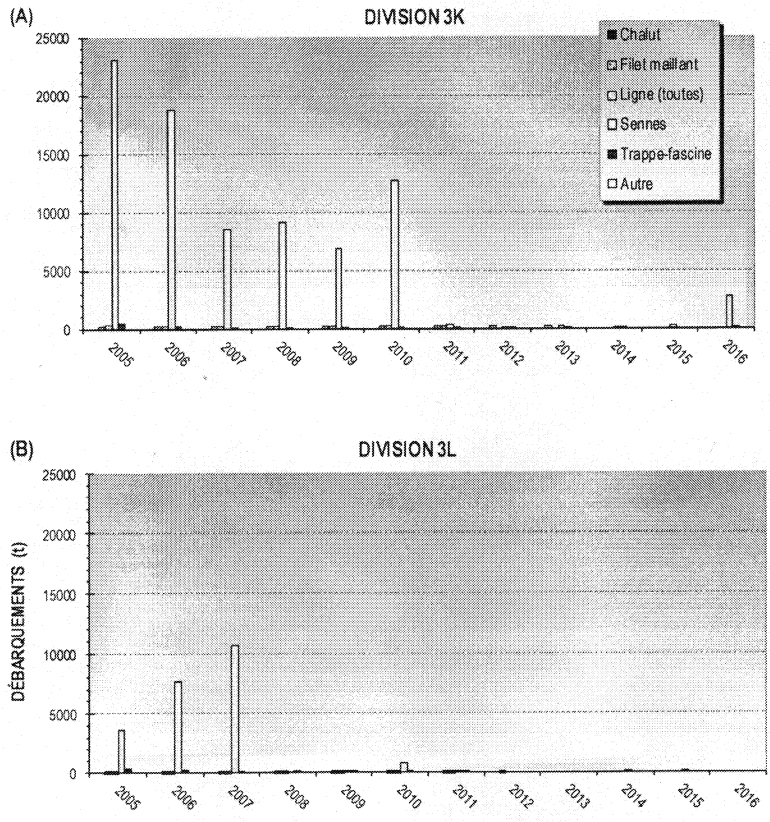
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Fréquences de longueur par engin



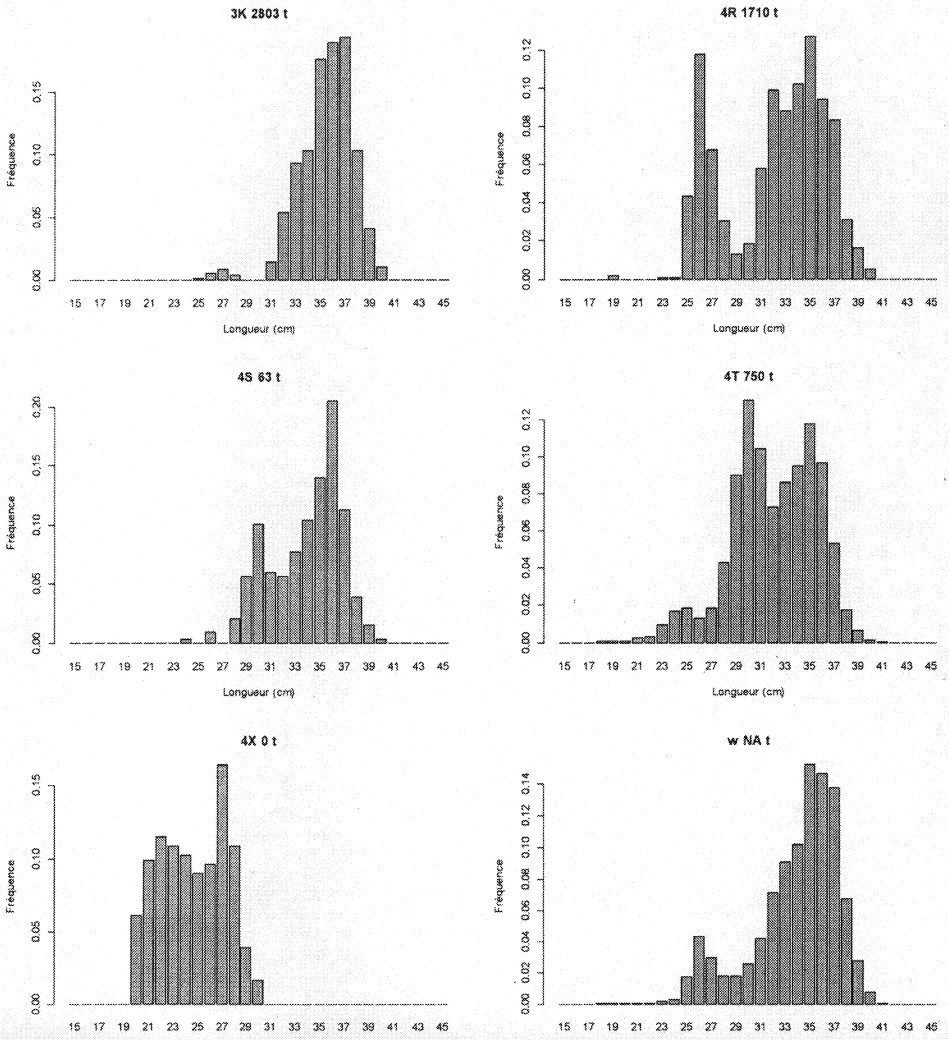
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Pêche dans 3KL

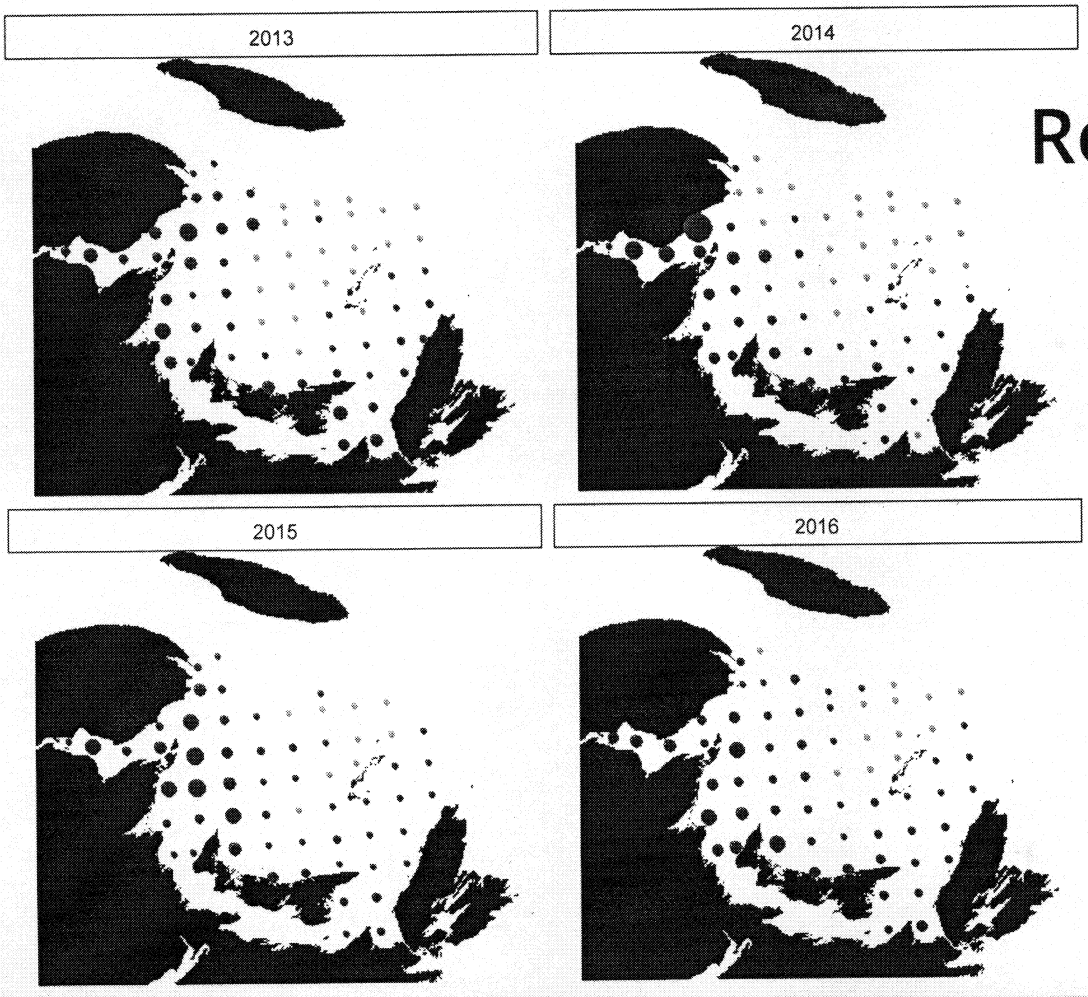


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Fréquences de longueur par division (non-pondérées)



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Relevés des œufs

001252

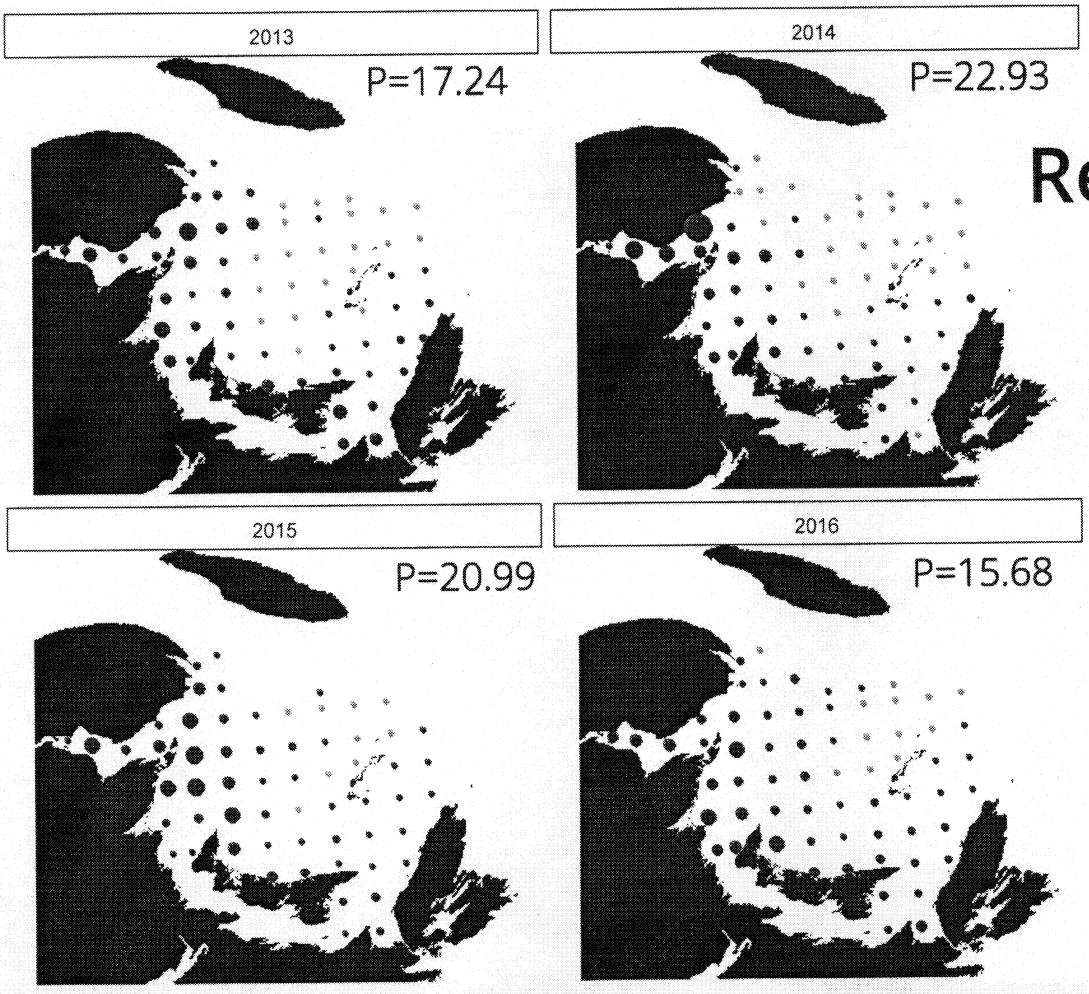
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Calcul de P: Production journalière moyenne

- Densités (n/m2) d'œufs (stades 1 et 5) par station: nombre trié divisé par le volume filtré (m^3) et multiplié par la profondeur échantillonnée (m)
- Conversion en production quotidienne (par station) à partir du temps d'incubation (modèle de Lockwood *et al.* 1977) et des températures moyennes de la couche 0-10 m
- P correspond à la moyenne (stratifiée ou de krigeage) de toutes les stations.

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Relevés des œufs

DEP
- 0
- 200
- 400
- 600

eggs
- absent
- present

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Calcul de la biomasse reproductrice

Méthode de la Production Totale d'Œufs (MPTO):

$$B = \frac{P \cdot A \cdot W}{S \cdot F \cdot R \cdot 10^6}$$

B = Biomasse reproductrice (t)

P = Production journalière moyenne d'œufs (n/m^2) (moyenne stratifiée)

A = Surface (m^2) de la zone échantillonnée ($6{,}945 \times 10^{10}$ m^2)

W = Poids (g) moyen d'un poisson provenant des échantillons biologiques

S = Proportion d'œufs pondus à la date médiane d'un relevé

F = Fécondité des femelles (Pelletier 1986)

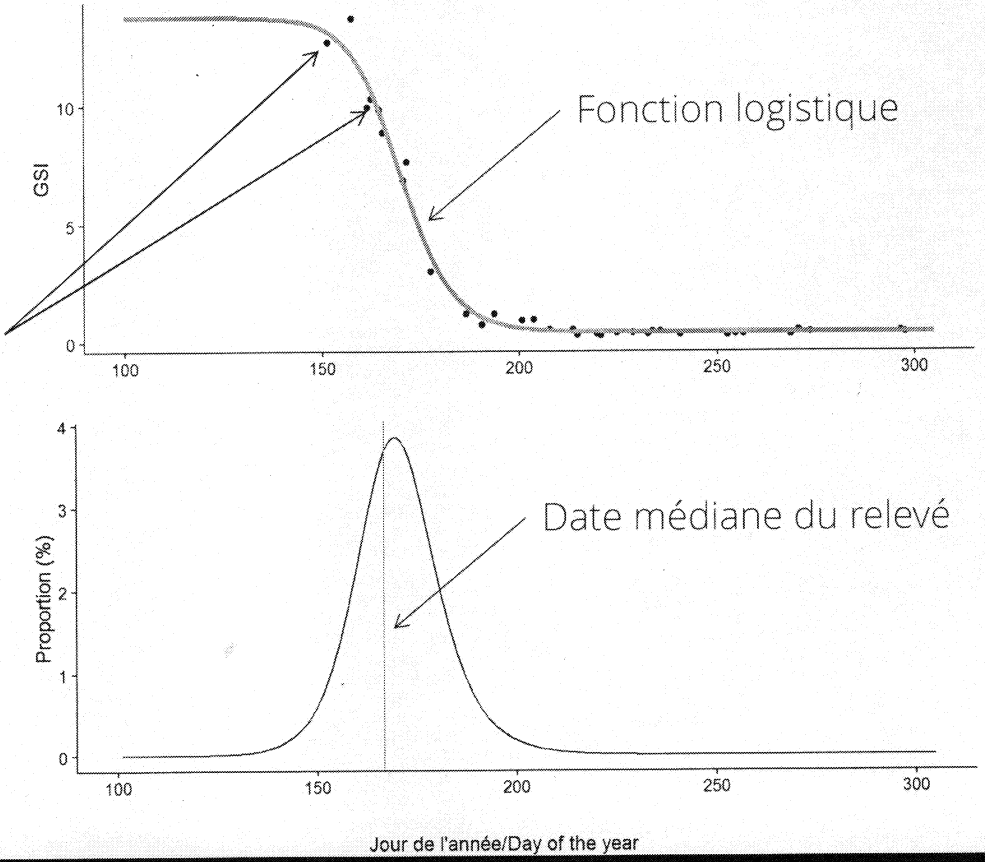
R = Rapport des sexes (proportion des femelles dans les échantillons)

10^6 = Facteur de conversion de gramme en tonne

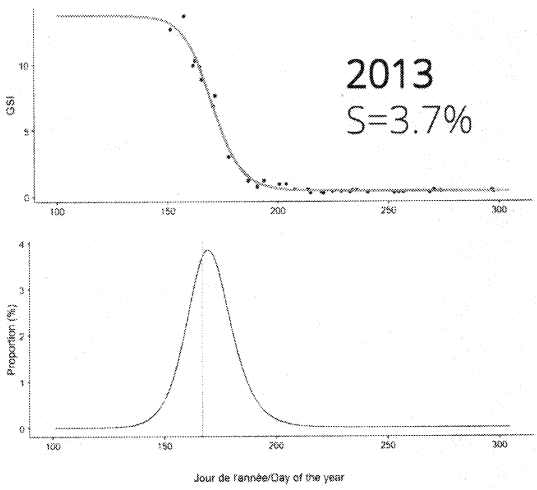
Document Released Under the Access to Information Act / Document divulgué en vertu de la Loi sur l'accès à l'information.

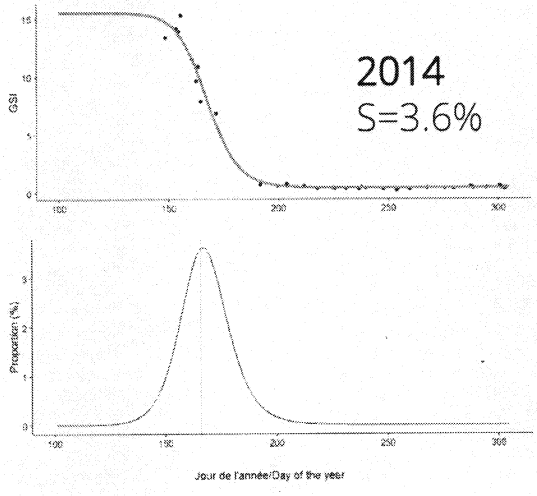
Calcul de S: Proportion d'œufs pondus à la date du relevé

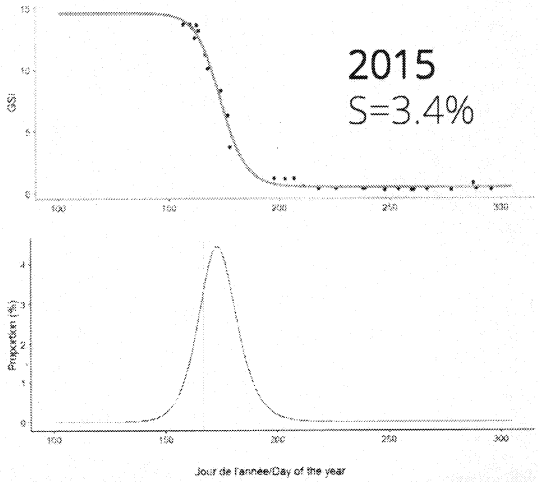
Modélisation des valeurs moyennes journalières de l'indice gonado-somatique

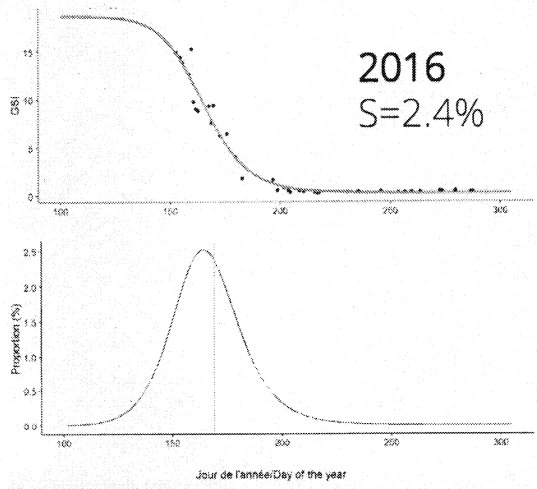


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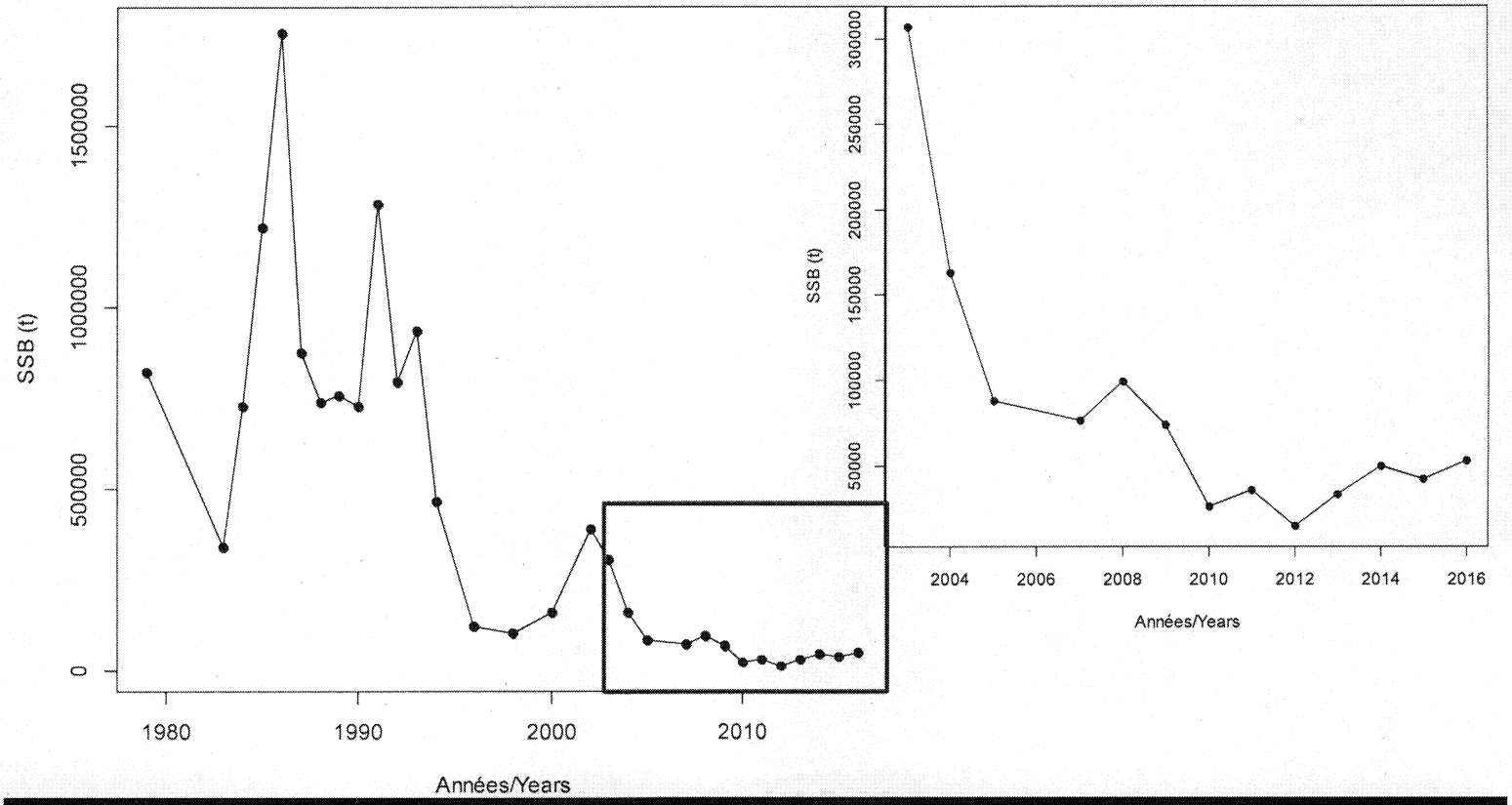
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Indice d'abondance (œufs)

Year	P	A	W (g)	S	Fec	R	SSB (t)
2013	17.24	6.94e10	339.1	0.037	641464	0.5126	33 362
2014	22.93	6.94e10	337.1	0.036	577407	0.5170	49 796
2015	20.99	6.94e10	336.5	0.034	667393	0.5237	41 783
2016	15.68	6.94e10	343.8	0.024	575821	0.5212	52 667

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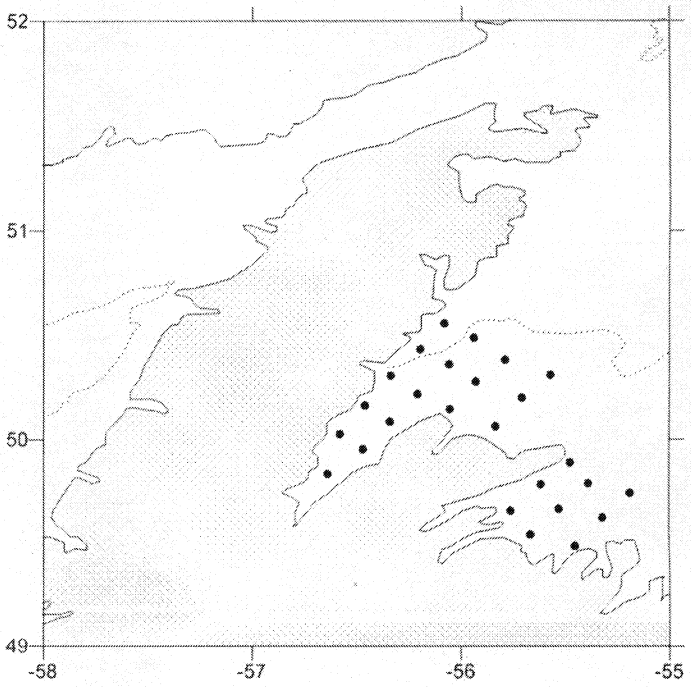
Indice d'abondance (œufs)



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Relevés additionnels

- **Objectif**: étendre les relevés (oeufs et larves) aux baies White et Notre Dame
- **Collaborateurs**: Dr. D. Robert (Memorial University), Dr. M. Castonguay & Dr. P. Pepin (MPO), Dr. E. Carruthers (FFAW)
- **Dates**: Juin-Août 2015 & 2016
- **Resultats**: aucun signe de ponte



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Analyse des prises non-déclarées

Elisabeth Van Beveren, Daniel Duplisea & Martin Castonguay
(Stratégie de Gouvernance Internationale)

2 approches:

- Synthèse des données disponibles (besoins en appât, rapports sur les pêches récréatives)
- Sondage en ligne 2016

001261

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Besoins en appât

- Terre-Neuve
  - Maquereaux achetés par un acheteur unique et déclarés
  - MSC: appât utilisé presque exclusivement du calmar

- Québec:
  - 2007-2010: sondage téléphonique aux IdM
    => 54-73% prises non déclarées (appâts+rejets)
  - 2006-2010: rapport MERINOV
    => prises 23% plus élevées (appât crabe)

001262

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Besoins en appât

- Sud du Golfe
  - 1993/2005/2011: sondage auprès des pêcheurs de homard (Michel Comeau)
    - => quantité d'appât annuelle constante
    - >1990: 1800t (5,38t appât/pêcheur *0.11% maquereau frais * ~3000 pêcheurs)
    - <1990: maquereau moins important comme appât
  - MSC: appât crabe : 187,5 t
  - IPÉ:
    - Lavallee et al., 1997: 43% de l'appât pour homard = maquereau
    - Robert MacMillan (resource monitoring program): Les 16 dernières années, hareng et maquereau surtout utilisés comme appâts à homard.

001263

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Besoins en appât

- Nouvelle-Ecosse:
  - MSC:
    - Pêche au homard hauturière n'utilise que du hareng
    - Crabe: 2000 t, surtout hareng, maquereau et calmar provenant de la vente internationale
  - Harnish et al. (2002-2004):

    5,216t appât/pêcheur

    (1682 pêcheurs, 75% maquereau)

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Besoins en appât: Thon

- Au moins 5 fois moins élevées que pour le crabe et le homard
- Golfe (données des journaux de bord)

Année	Appât utilisé_Code	Appât utilisé_Description	Montant (lbs) capturé pour appât	Nombre de permis
2013	200	Hareng	12125	280
2013	202	Hareng/Maquereau	1645	41
2013	250	Maquereau	9540	412
2013 Total			**23650**	**764**
2014	200	Hareng	9686	221
2014	202	Hareng/Maquereau	741	32
2014	250	Maquereau	11508	577
2014 Total			**22765**	**856**
2015	200	Hareng	9001	241
2015	202	Hareng/Maquereau	2660	55
2015	250	Maquereau	12068	590
2015 Total			**25323**	**959**

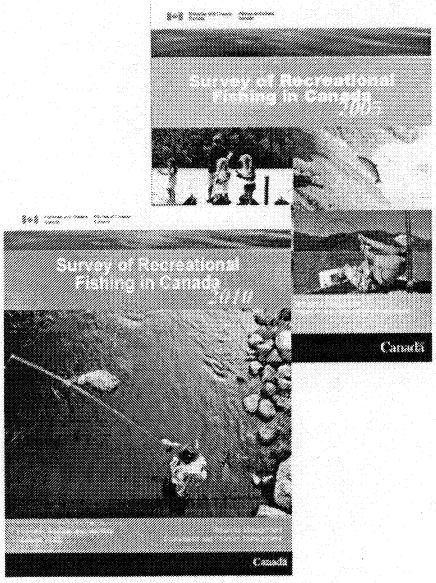
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Pêches récréatives

Sondage de la pêche récréative au Canada
Tous les 5 ans (1990-2010), par province

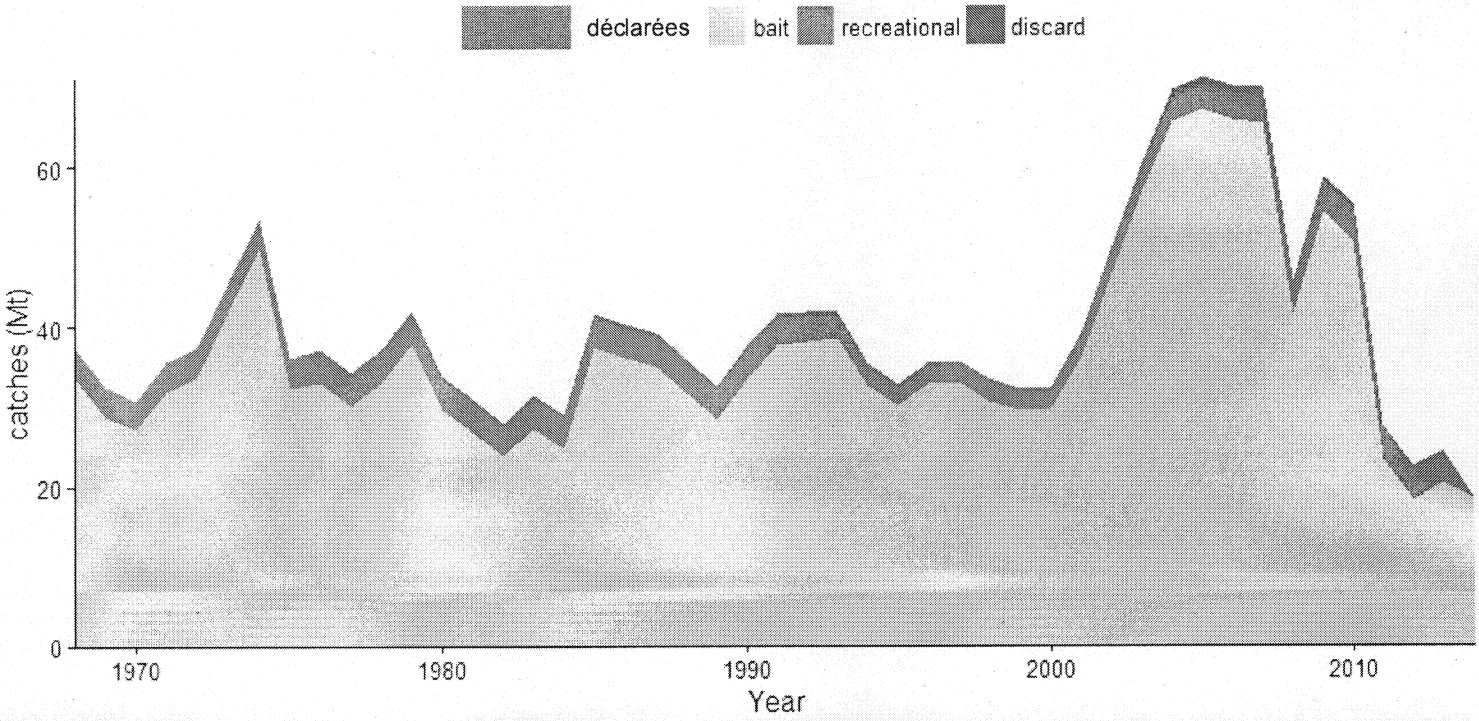
IPE et NE: maquereau = deuxième espèce prises par les pêcheurs au Canada (après la truite) en incluant toutes les espèces d'eau douce. Contrairement aux espèces d'eau douce, les maquereaux sont presque toujours gardés.

Mais:
- N'inclut pas le Québec
- Seulement les pêcheurs avec licence
- Pas de semi-commercial?



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Estimation maximale des prises non-déclarées



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Sondage en ligne 2016

- 3453 mails (QC, NB, NE, IPE)
- Trois groupes facebook
- Radio IM
- Forums
- NovaNews

Input sought for mackerel research



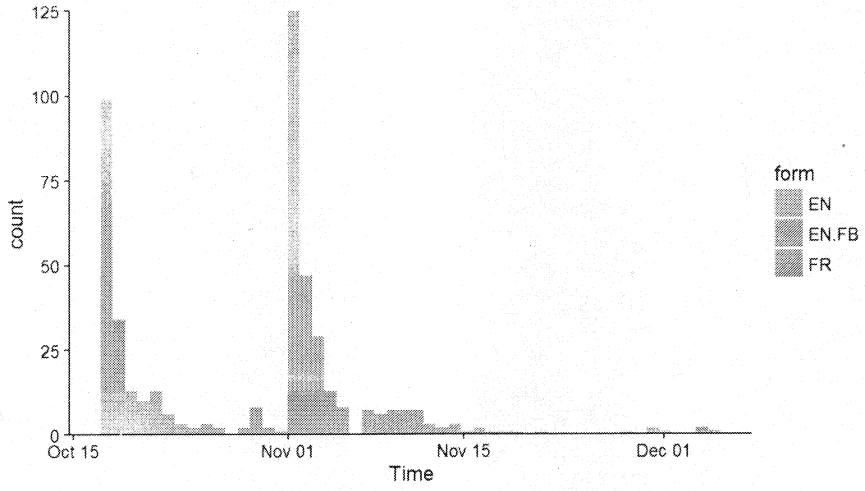
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Répondants

17/10/2016 - 04/12/2016:

476 formulaires avec au moins une réponse (7% FB)

Anglais 89%, Français11%



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Représentativité

En comparaison:

1) Nombre de licences 2014 (DFO): 8082

=> 390 réponses viennent de pêcheurs avec licences

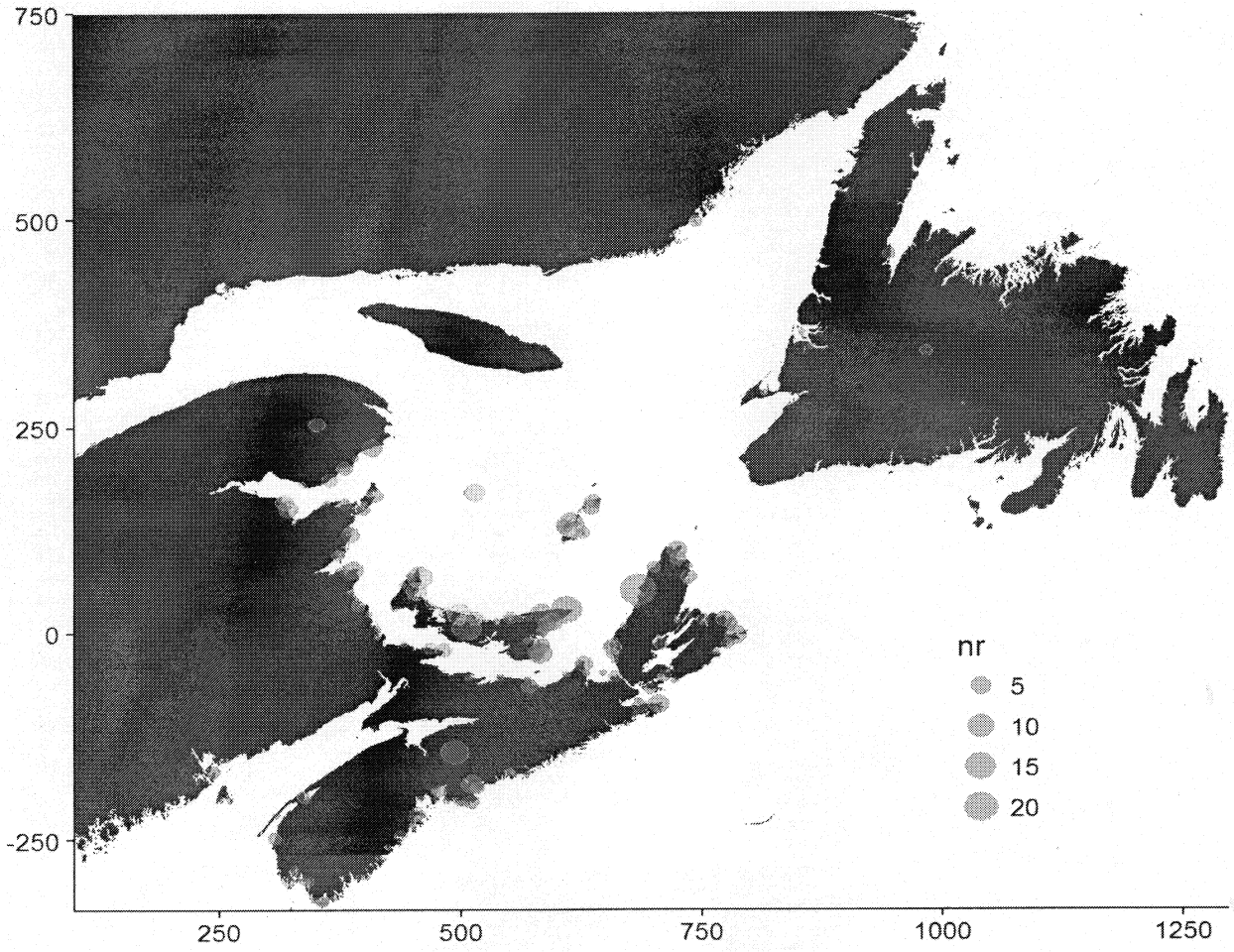
→ au moins 5%

SPECIES	NOVA SCOTIA		NEW BRUNSWICK		P.E.I. GULF	QUEBEC	NEWFOUNDLAND	TOTAL ATLANTIC
	MARITIMES	GULF	MARITIMES	GULF				
MACKEREL	1,909	655	75	1,112	1,258	808	2,265	8,082

2) Prises 2016: ~8000t (TAC)

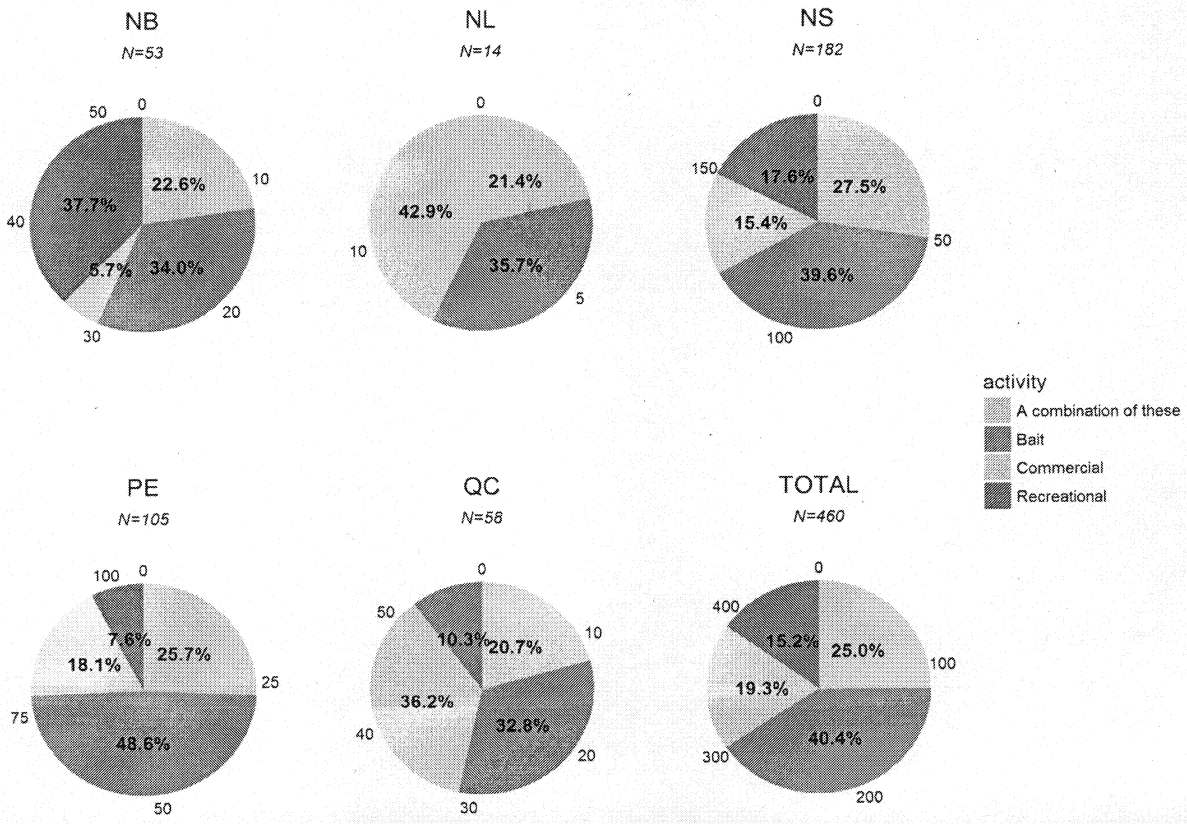
=> prises déclarées par les participants au sondage:1536t = 19%

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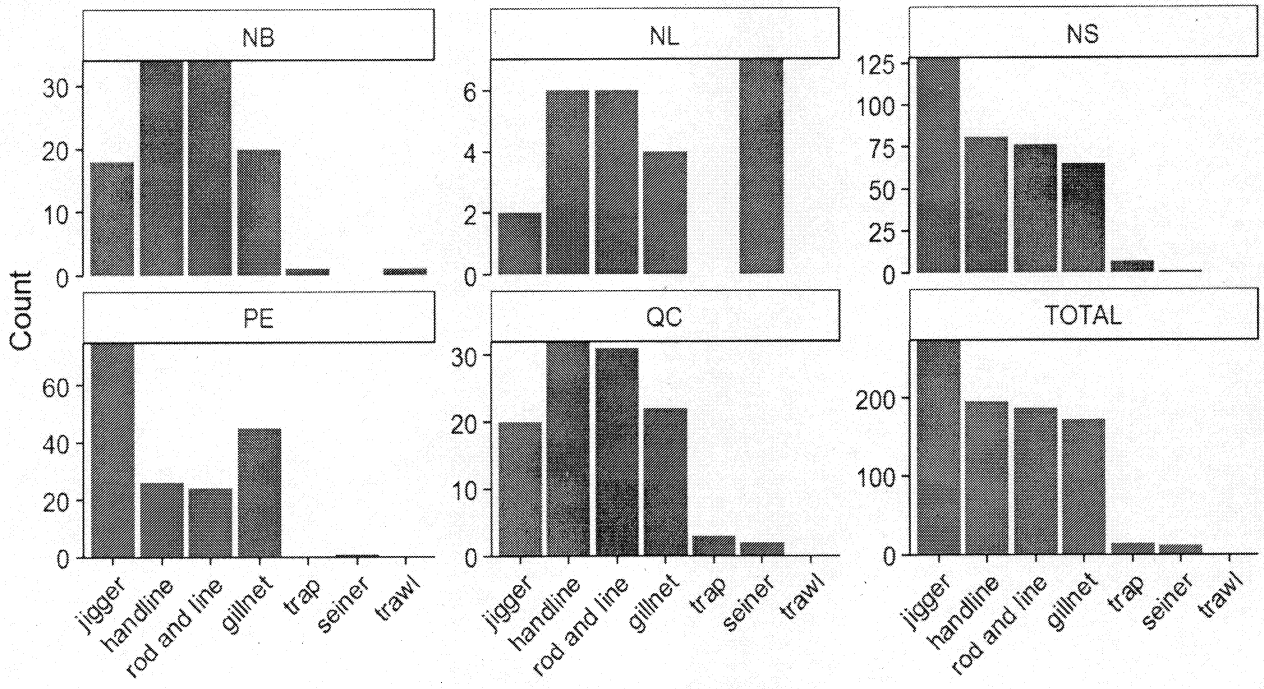
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Activité



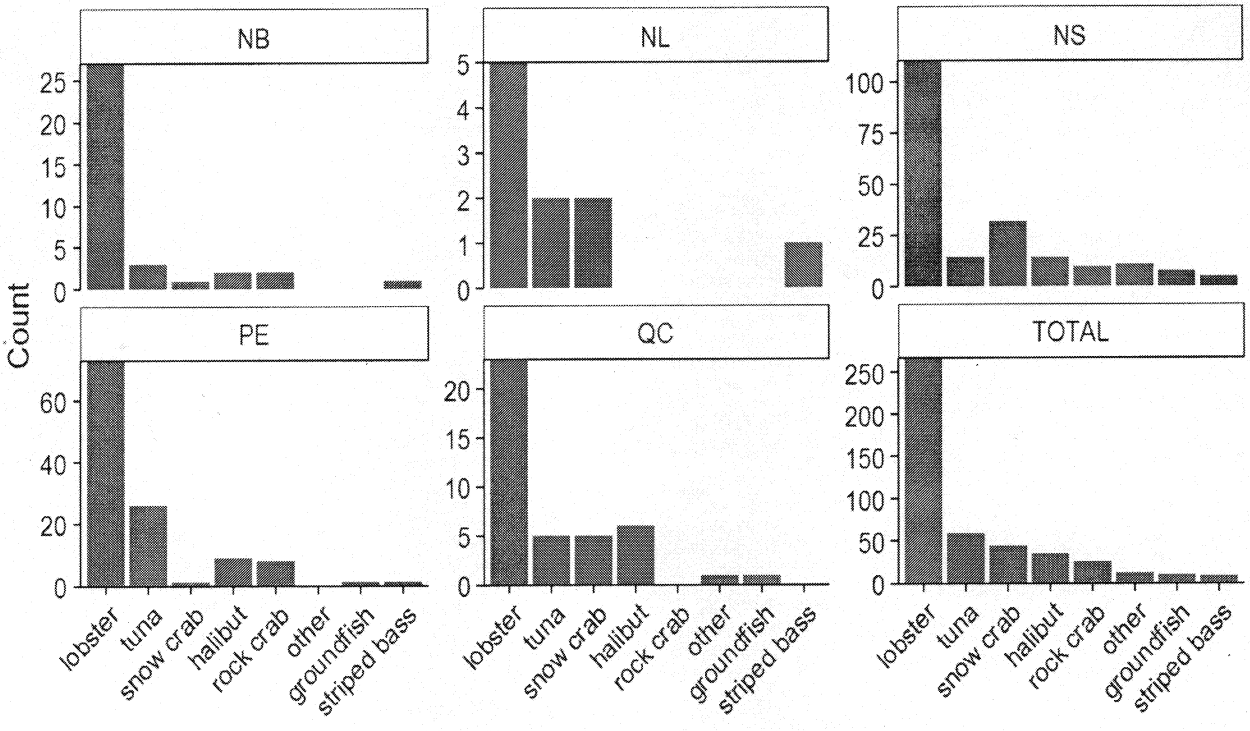
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Type d'engin



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Utilisation de l'appât

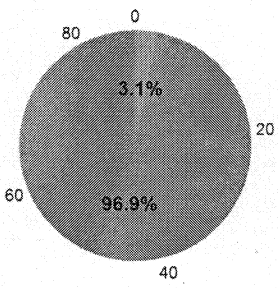


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Déclaré vs non-déclaré

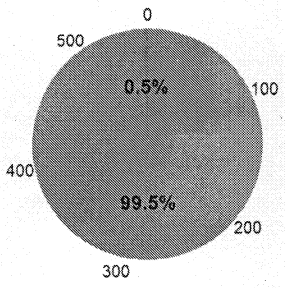
NB

87t (N=51)



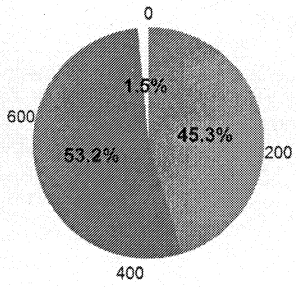
NL

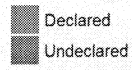
556t (N=11)



NS

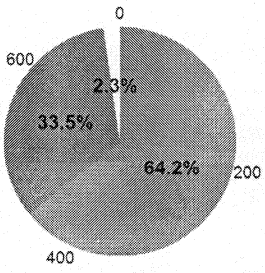
765t (N=183)





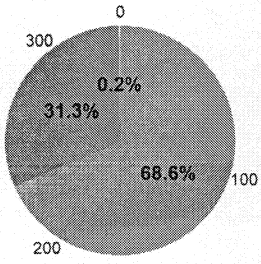
PE

696t (N=106)



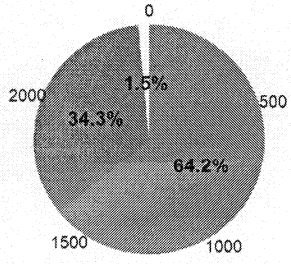
QC

336t (N=56)



TOTAL

2477t (N=430)



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Évaluations antérieures

1986 – 2012:

- ASP ne convergent pas (F << M)
- M = 0.3 puis 0.2
- Indices dérivés de la pêche (abandonnés)
- Indice des œufs = absolu

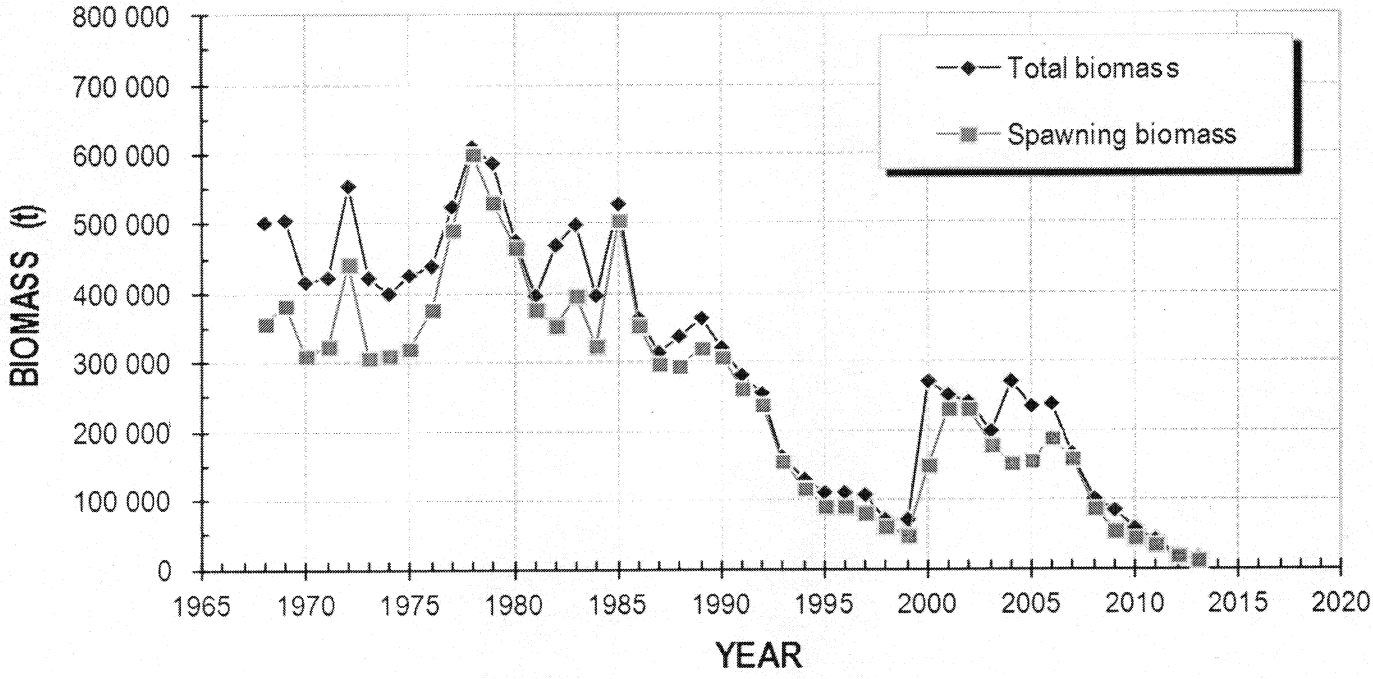
2012 & 2014:

- Integrated catch-at-age
- ajusté à l'indice œufs (>1996)
- M_{2012}=0.2; M_{2014}= Gislason et al. (2010)

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Évaluation analytique 2014

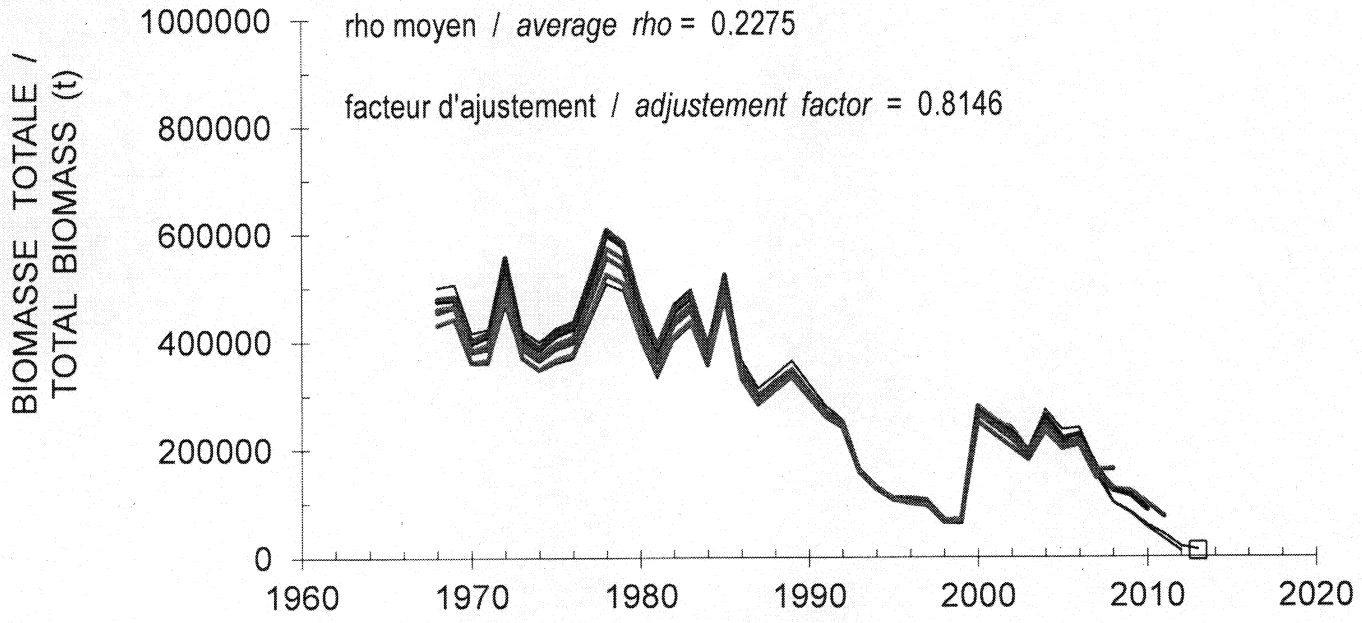


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Patrons rétrospectifs

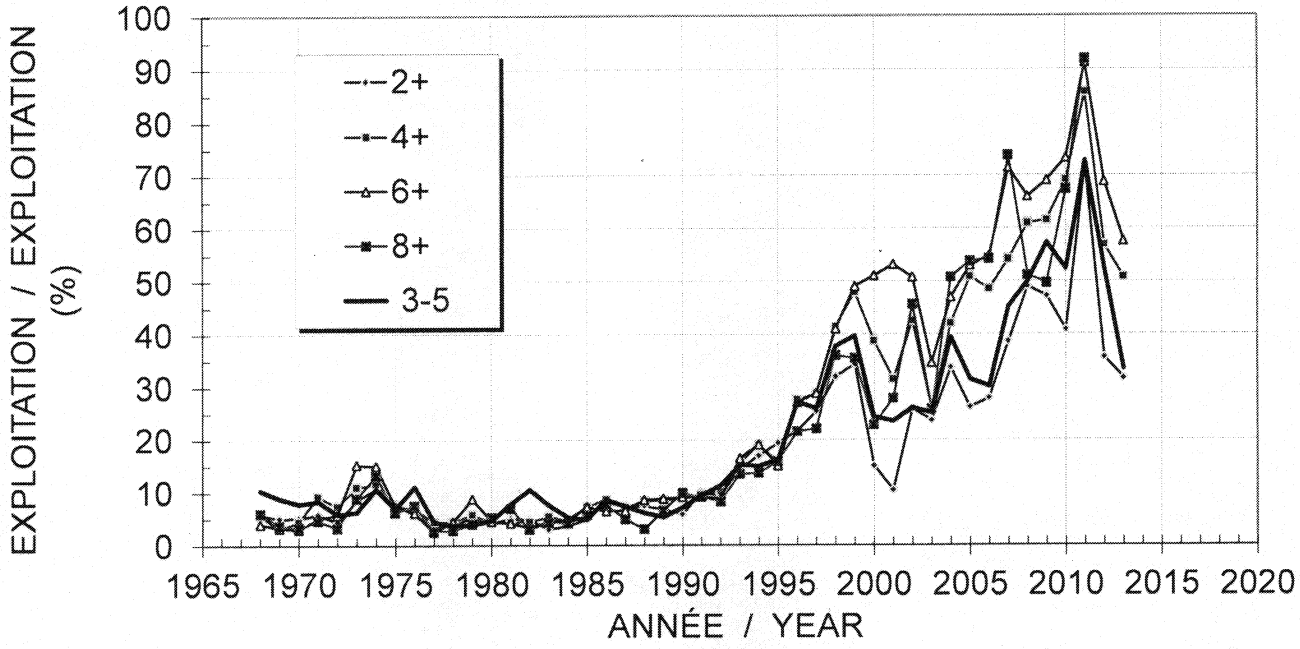
(B)



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Taux d'exploitation

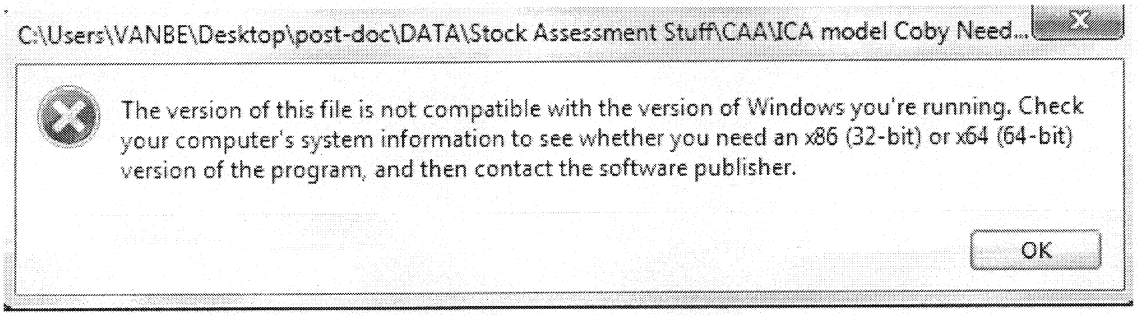
(C)



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Problèmes

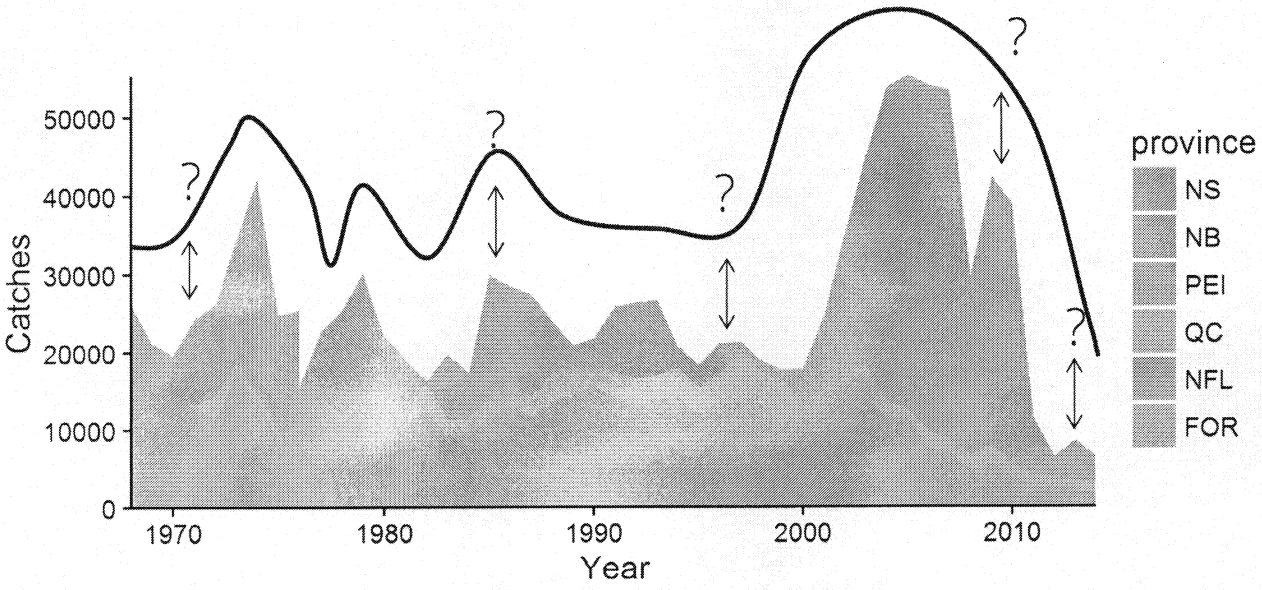
- « ICA » désuet et incompatible
- Ne tient pas compte des prises non-déclarées
- Taux d'exploitation de la SSB peu réaliste



001280

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Approche « Censurée »



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Approche « Censurée »

2005 **Censored catch data in fisheries stock assessment**

T. R. Hammond and V. M. Trenkel

2010 **Detecting and correcting underreported catches in fish stock assessment: trial of a new method**

Nicolas Bousquet, Noel Cadigan, Thierry Duchesne, and Louis-Paul Rivest

2016 A state-space stock assessment model for northern cod, including under-reported catches and variable natural mortality rates[1]

Noel G. Cadigan

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Structure générale

$$N_{a,y} = \begin{cases} f\left(SSB_{y-1}, E_{y-1}\right), & a = 1 \\ N_{a-1,y-1}\exp\left(-Z_{a-1,y-1} + \delta_{a,y}\right), & a = 2, \ldots, A-1 \\ N_{a-1,y-1}\exp\left(-Z_{a-1,y-1} + \delta_{a,y}\right) + N_{a,y-1}\exp\left(-Z_{a,y-1} + \delta_{a,y}\right), & a = A \end{cases}$$

Mortalité totale (Z) =Naturelle (M) + Pêche (F)

↓ Fixe ↓ Estimée

Gislason F=Fy*Fa

↙ ↘

Random walk Identique pour âges 4-10

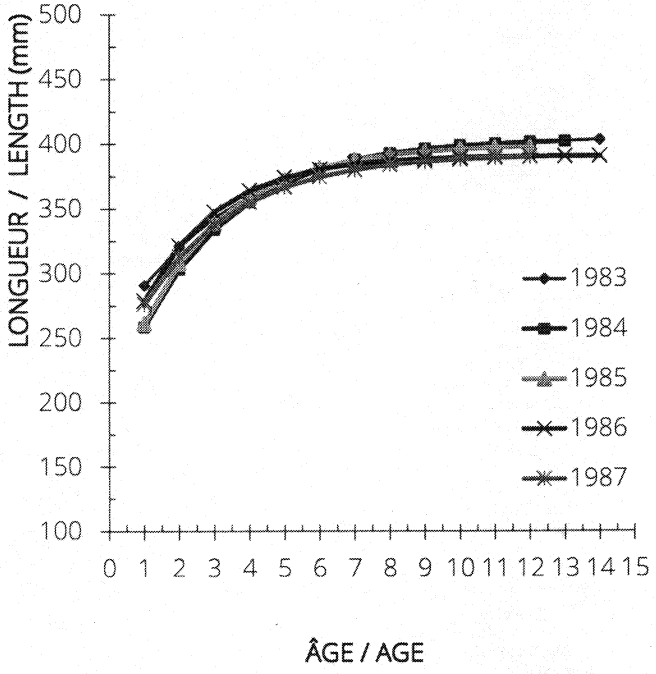
Recrutement = Beverton-Holt + effet environnemental
Erreur de processus (autorégressive sur les années et les âges)

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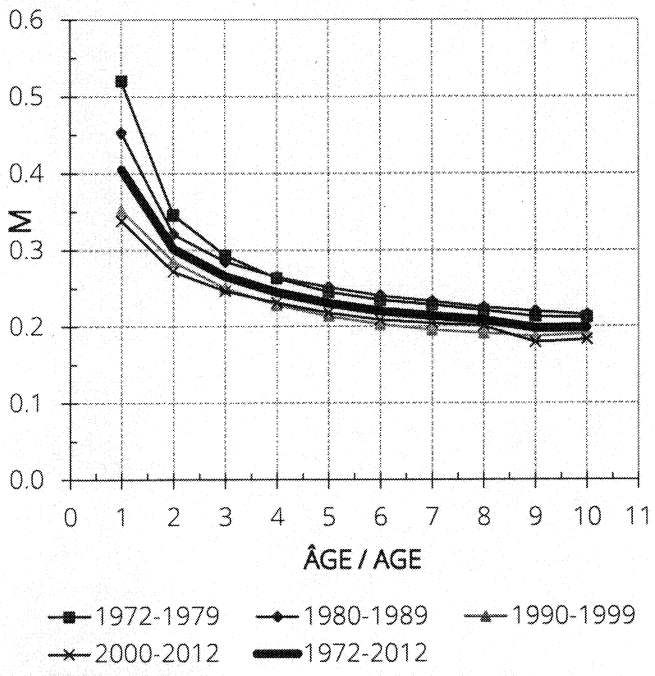
Mortalité naturelle (2014)

Calcul de M / *M Calculation*
Modèle de Gislason *et al.* 2010

COHORTE / COHORT



COHORTE / COHORT



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Structure générale

- Prises à l'âge/année (Baranov):

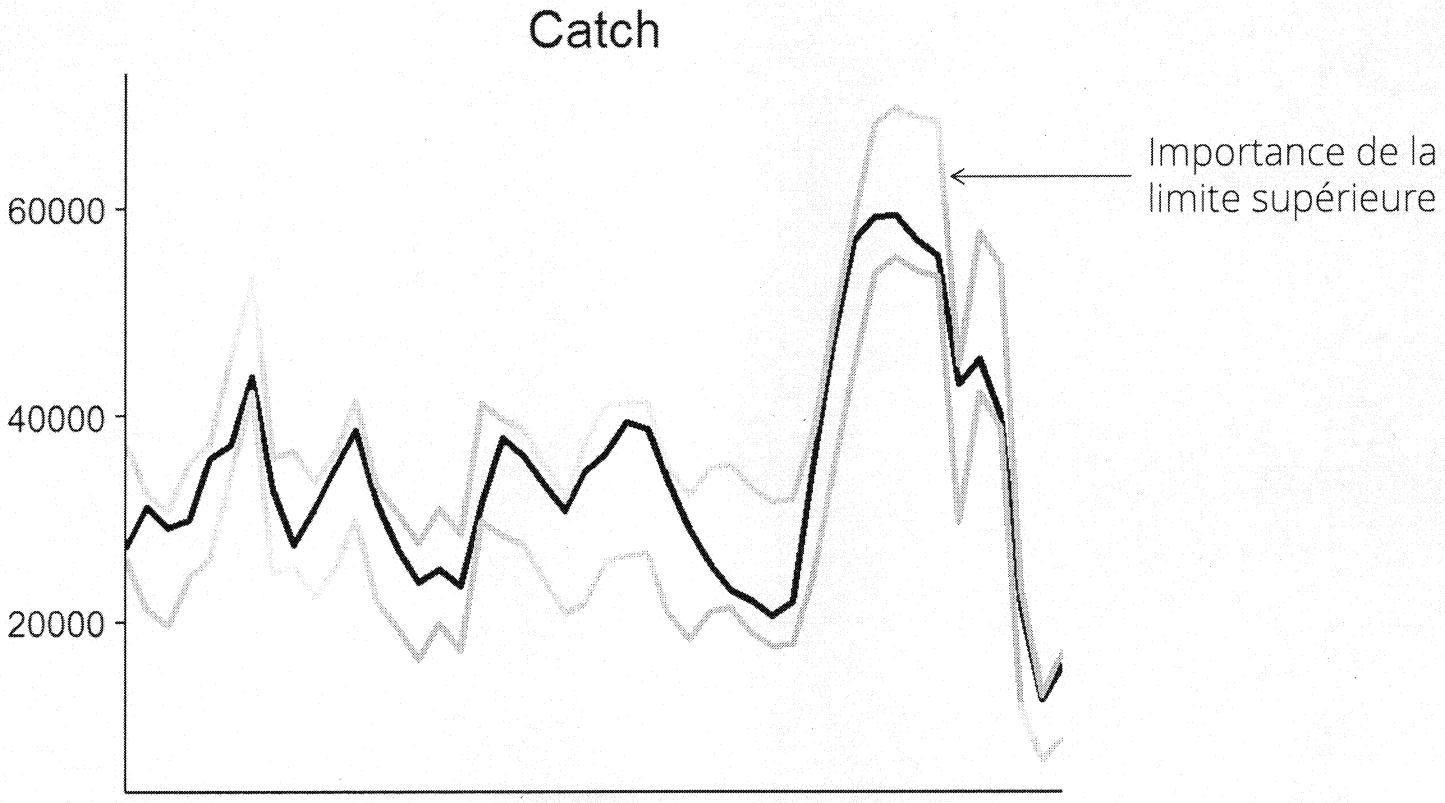
$$C_{a,y}=N_{a,y}\frac{F_{a,y}}{Z_{a,y}}\left[1-\exp\left(-Z_{a,y}\right)\right]$$

- Indice du relevé des œufs:

$$I_y=\sum_{y=1}^{Y} qN_{a,y}exp\left(-Z_{a,y}t_s\right)Weight_{a,y}PropMature_{a,y}$$

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Version censurée



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Cormier, Mélanie

De: Gros-Louis, Denis
Envoyé: 17 mars 2017 12:00
À: Rivierre, Antoine; Boudreau, Suzie
Cc: Hardy, Magalie; Morin, Mathieu; Richard, Josée; Lemire, Maryse
Objet: RE: RAP_Maquereau

Merci Antoine.
Il sera important que tu travailles avec le Golfe et probablement Terre-Neuve et Maritimes pour enclencher en plan de rétablissement plus proactif, si ce n'est déjà fait.

Vient me voir lundi avec Suzie s'il y avait besoin de débuter ensemble des discussions bilatérales du comité de coordination du Golfe pour t'aider à partir cette action de pérennité importante.

Denis

De : Rivierre, Antoine
Envoyé : 17 mars 2017 10:54
À : Trottier, Steve <Steve.Trottier@dfo-mpo.gc.ca>; Morin, Bernard <Bernard.Morin@dfo-mpo.gc.ca>; Hardy, Magalie <Magalie.Hardy@dfo-mpo.gc.ca>; Richard, Josée <Josee.Richard@dfo-mpo.gc.ca>; Morin, Mathieu <Mathieu.Morin@dfo-mpo.gc.ca>; Lemelin, Dario <Dario.Lemelin@dfo-mpo.gc.ca>; Simard, France <France.Simard@dfo-mpo.gc.ca>; Rowsell, Andrew <Andrew.Rowsell@dfo-mpo.gc.ca>; Drapeau, André <Andre.Drapeau@dfo-mpo.gc.ca>; Arseneau, Cédric <Cedric.Arseneau@dfo-mpo.gc.ca>; Brouillette, Pierre-Charles <Pierre-Charles.Brouillette@dfo-mpo.gc.ca>; Deslauriers, Marcelle <Marcelle.Deslauriers@dfo-mpo.gc.ca>
Cc : Gros-Louis, Denis <Denis.Gros-Louis@dfo-mpo.gc.ca>; Boudreau, Suzie <Suzie.Boudreau@dfo-mpo.gc.ca>
Objet : RAP_Maquereau

Bonjour à tous,
Pour votre information, vous trouverez en pièce jointe les documents présentés lors de la revue des stocks de maquereau qui s'est tenue la semaine passée à L'IML.
En résumé, les points marquants sont :

- Entre 2013 et 2015, les débarquements (déclarés) sont passés de 8 663 tonnes à 4143 tonnes (diapo 23-24 jour 1)
- Baisse des débarquements américains
- En 2016, le TAC de 8000 tonnes aurait été atteint pour la première fois. Cependant les données de débarquement de la région du Golfe et des maritimes n'ont pas été fournies et seulement 5357 tonnes ont été rapportées (diapo 24).
- Les différents indicateurs biologiques présentés et l'analyse des débarquements indiquent que le stock de maquereau se situe dans la zone critique
- La longueur à 50 % de maturité se maintient légèrement au-dessus de la longueur minimale de capture
- La structure d'âge a considérablement rétréci suite à la disparition des poissons de plus de 5 ans. On observe une légère amélioration depuis 2013 avec une hausse d'abondance des maquereaux d'âge de 5 et 6 ans.
- L'indice d'abondance issue du relevé des œufs a atteint son niveau le plus bas en 2012 et a légèrement augmenté jusqu'à 52t en 2016. Cette valeur reste très faible.
- L'analyse des captures non déclarées montre que les prises totales peuvent atteindre 150 % et 200 % des prises déclarées et que ce rapport varie selon les provinces

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- Le modèle statistique des prises à l'âge confirme que la SSB a atteint son minimum en 2012 et a légèrement augmenté pour atteindre 40 000 tonnes en 2016
- La baisse de biomasse est occasionnée par des niveaux de mortalité par la pêche (taux d'exploitation) plusieurs fois supérieurs aux niveaux historiques soutenables. Le rétablissement semble avoir été ralenti par la rareté des évènements de recrutement.
- Le point de référence limite est de 103 000 tonnes, en 2016, le stock est donc à 40 % du PRL
- Stock est dans la zone critique
- Étant donné que le stock est dans la zone critique, la priorité devrait être à la reconstruction. Des projections montrent que des mortalités de pêche totales (incluant les prises non déclarées) supérieures à 12 500 tonnes compromettent le rétablissement du stock.

Si vous avez des interrogations concernant l'information présentée, je vous invite à me contacter directement.

Antoine

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Thomas, Tashina

From: Mallet, Pierre
Sent: March-17-17 10:53 AM
To: Gaudet, Mario; Thomas, Tashina
Subject: FW: agenda items for AMAC

PVI

From: Melanie Giffin [mailto:commpeifa@eastlink.ca]
Sent: March-17-17 10:36 AM
To: Lester, Brian
Cc: Browne, Ryan; Mills, Chris D; Mallet, Pierre; Bobby Jenkins; Chuck White
Subject: agenda items for AMAC

Good morning,

I have received the agenda for AMAC, Thank-you. There was no call for agenda items prior to receiving it. Is it possible to add agenda items? The mackerel advisory committee and the PEIFA Board of Directors would like to add 2 agenda items:

1. adding the additional gear type of hooks to bait conditions if/when the commercial mackerel fishery closes until December 31st. (Note: All other management measures on bait conditions remain the same)
2. All seine gear types be grouped together to get a maximum of 40% of the TAC

I'm also curious about seats at the table. I have been lead to believe that the PEIFA normally has 3 seats at the table. I expect the same this year, but am just looking for confirmation on this.

Thanks in advance,
Mel

Melanie Giffin, GCertSc, BSc
Prince Edward Island Fishermen's Association
Quality and Industry Program Planner
420 University Ave. Suite 102
Charlottetown, PE
C1A 7Z5
Office: 902.566.4050
Cell: [redacted]

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Patterson, Pauline

De: Cawthray, Jenness
Envoyé: March-20-17 3:21 PM
À: Castonguay, Martin; Doniol-Valcroze, Thomas; Dunne, Erin; Mallet, Pierre; Thomas, Tashina; Gaudet, Mario; Rivierre, Antoine; Waters, Christa
Objet: FW: Atlantic Mackerel Advisory Committee / Comité consultatif du maquereau de l'Atlantique
Pièces jointes: AMAC_supplementary_meeting.pdf

Hi All,
Here is the invitation for the aboriginal supplementary meeting on Tuesday, March 28th in Halifax. Two days before AMAC. We had to adjust the date as there was an APC meeting happening at the same time as our original date.
Thanks
Jenness

From: Cawthray, Jenness
Sent: March-20-17 12:48 PM
To: Dunne, Erin
Subject: FW: Atlantic Mackerel Advisory Committee / Comité consultatif du maquereau de l'Atlantique

Here you go!

From: Browne, Ryan
Sent: March-14-17 10:46 AM
Subject: Atlantic Mackerel Advisory Committee / Comité consultatif du maquereau de l'Atlantique

SENT ON BEHALF OF BRIAN LESTER, CHAIR, ATLANTIC MACKEREL ADVISORY COMMITTEE (AMAC)
ENVOYÉ DE LA PART DE BRIAN LESTER, PRÉSIDENT, COMITÉ CONSULTATIF DE MAQUEREAU ATLANTIQUE (CCMA)

Further to the attached invitation to the supplementary AMAC meeting, please note this supplementary meeting is now scheduled for **Tuesday, March 28th from 1:00 pm to 4:00 pm** in Halifax, NS at the Delta Halifax, 1990 Barrington Street, Halifax, NS (902) 425-6700).

Please contact Jenness Cawthray at Jenness.Cawthray@dfo-mpo.gc.ca with any questions.

Suite à l'invitation ci-jointe à la réunion supplémentaire d'AMAC, veuillez noter que cette réunion supplémentaire aura lieu **mardi le 28 mars de 13 h à 16 h** à Halifax (N.-É.) au Delta Halifax, 1990 rue Barrington, Halifax (N.-É.) (902) 425-6700).

Veuillez communiquer avec Jenness Cawthray à Jenness.Cawthray@dfo-mpo.gc.ca si vous avez des questions.

Thank you,
Merci,

Ryan Browne

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Administrative Assistant, Resource Management
Fisheries and Oceans Canada / Government of Canada
ryan.browne@dfo-mpo.gc.ca / Tel: 613-991-1833

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Pêches et Océans Canada / Gouvernement du Canada
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Fisheries and Oceans Canada | Pêches et Océans Canada

Your File *Votre référence*

Our File *Notre référence*

Hello,

A meeting of the Atlantic Mackerel Advisory Committee is scheduled for March 30, 2017, at the Delta Halifax, 1990 Barrington Street, Halifax, Nova Scotia. The official invitation and agenda is attached.

In addition to this meeting, DFO would like to offer a supplementary session (within the advisory committee process) to ensure that First Nations and Aboriginal considerations about the 2017 mackerel fishery have a forum for expression. As such, I am contacting you to offer a meeting for the First Nations and Aboriginal Groups that are members of the Atlantic Mackerel Advisory Committee to discuss the 2017-2018 Atlantic mackerel fishery. The Agenda includes the items usually discussed at the Advisory Committee such as Science presentation on the stock status, discussion of TAC recommendations for 2017, and review of management measures.

This supplementary meeting is scheduled for Wednesday, March 29th from 1:00 pm to 4:00 pm in Halifax, NS. The meeting place will be determined once the number of participants is confirmed.

Please note, this would not replace your participation at Atlantic Mackerel Advisory Committee meeting scheduled for March 30th.

Please contact Jenness Cawthray at Jenness.Cawthray@dfo-mpo.gc.ca, by March 10th, if you are interested in participating in this meeting so that a suitable sized boardroom can be booked.

Regards,

Brian Lester

Chair, Atlantic Mackerel Advisory Committee

Canada

Ottawa, Canada
K1A 0E6

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Fisheries and Oceans Canada | Pêches et Océans Canada

Your File Votre référence

Our File Notre référence

Bonjour,

Une réunion du Comité consultatif sur le maquereau de l'Atlantique aura lieu le 30 mars 2017, à l'hôtel Delta Halifax, 1990, rue Barrington, Halifax (Nouvelle-Écosse). Vous trouverez l'invitation officielle et l'ordre du jour ci-joint.

En plus de cette réunion, le MPO aimerait offrir une séance supplémentaire (dans le cadre du processus du comité consultatif) pour assurer que les considérations des Premières nations et des Autochtones au sujet de la pêche du maquereau en 2017 aient un forum d'expression. À ce titre, je vous contacte pour offrir une réunion aux Premières nations et aux groupes autochtones qui sont membres du Comité consultatif du maquereau de l'Atlantique afin de discuter de la pêche du maquereau de l'Atlantique en 2017-2018. L'ordre du jour comprend les points habituellement discutés au Comité consultatif tels que la présentation scientifique sur l'état des stocks, la discussion des recommandations du TAC pour 2017 et l'examen des mesures de gestion.

Cette réunion supplémentaire aura lieu le mercredi 29 mars de 13h00 à 16h00 à Halifax (N.-É.). Le lieu de la réunion sera déterminé une fois que nous sachions combien de participants y assisteront.

Veuillez noter que cela ne remplacerait pas votre participation à la réunion du Comité consultatif du maquereau de l'Atlantique prévue le 30 mars.

Veuillez contacter Jenness Cawthray (Jenness.Cawthray@dfo-mpo.gc.ca) d'ici le 10 mars si vous êtes intéressés à participer à cette réunion pour que nous puissions réserver une salle de conférence de taille adéquate.

Cordialement,

Brian Lester

Président, Comité consultatif du maquereau de l'Atlantique

Canada

Ottawa Canada
K1A 0E6

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Dunn, Patricia

From: Waters, Christa
Sent: March-20-17 9:39 AM
To: Berthier, Jacinta; Wentzell, Doug; MacDonald, Carl
Subject: Atlantic Mackerel_Roundtable_2017.pptx
Attachments: Atlantic Mackerel_Roundtable_2017.pptx

Hello,
Here is the most up to date presentation on mackerel for roundtable. Do you have any comments on this?
Christa

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Marentette, Julie

From: Marentette, Julie
Sent: March-21-17 11:31 AM
To: Krohn, Martha; Landry, Jean
Subject: FW: Projection Tables?
Attachments: projections.docx

For your records – these are what was discussed at the DG meeting this morning – **not yet revised**.

Best regards,

Julie Marentette, Ph.D.

Science Advisor, Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Julie.Marentette@dfo-mpo.gc.ca /Tel: 613-943-2098

Conseillère scientifique, Sciences des populations halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Julie.Marentette@dfo-mpo.gc.ca /Tél: 613-943-2098

From: Doniol-Valcroze, Thomas
Sent: March-21-17 9:54 AM
To: Marentette, Julie
Subject: RE: Projection Tables?

Hi Julie,

Here is a first version of the table with the projections.

Hope this helps.
Thomas

De : Marentette, Julie
Envoyé : 20 mars 2017 15:37
À : Doniol-Valcroze, Thomas
Objet : Projection Tables?

Hi Thomas,

I'll be briefing the Director General tomorrow at 10 am on the Mackerel assessment and we were thinking it might be good to be able to provide her with the projection tables for the SAR – do you think you might have those available by tomorrow morning?

I know things are very busy on your end and that may not be possible. Thanks, and I'm sorry to bring more questions to your attention!

Best regards,

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Julie Marentette, Ph.D.

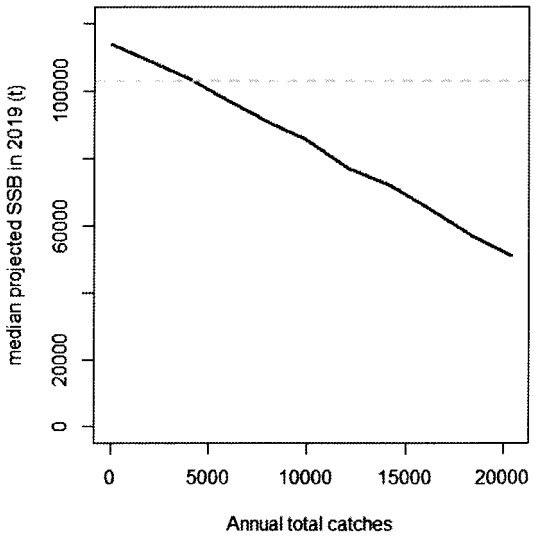
Science Advisor, Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Julie.Marentette@dfo-mpo.gc.ca /Tel: 613-943-2098

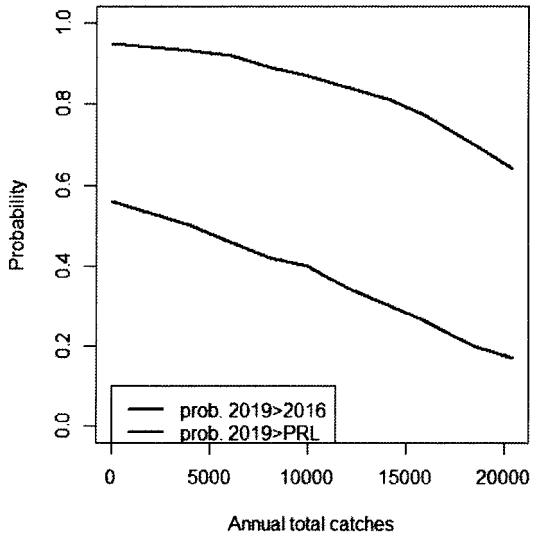
Conseillère scientifique, Sciences des populations halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Julie.Marentette@dfo-mpo.gc.ca /Tél: 613-943-2098

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Projections performed with the censored SCAA model to estimate SSB in 2019 and probability of exceeding management targets. Total catches (declared + undeclared) are fixed for 2017 and 2018. Natural mortality at age is the same as was used in hindcast modelling. Weight-at-age and proportions of mature fish are equal to the average of the last three years. Recruitment is drawn from a log-normal distribution around the mean value determined by the stock-recruitment relationship and the environmental factor (itself taken from a normal distribution with the mean and standard deviation of the entire time series).

Total catches (t)		2017		2018		2019		
2017	2018	SSB (t)	Exp. Rate	SSB (t)	Exp. Rate	SSB (t)	prob. >2016	prob. >PRL
0	0	48,283	0.00	77,164	0.00	113,886	0.95	0.56
4,000	4,000	48,283	0.08	72,175	0.06	103,378	0.93	0.50
6,000	6,000	48,283	0.13	68,503	0.09	96,927	0.92	0.46
8,000	8,000	48,283	0.17	64,910	0.12	90,889	0.89	0.42
10,000	10,000	48,283	0.21	62,762	0.16	85,686	0.87	0.40
12,000	12,000	48,283	0.25	59,466	0.21	77,143	0.84	0.34
14,000	14,000	48,283	0.29	56,858	0.24	72,189	0.81	0.30
16,000	16,000	48,283	0.33	54,018	0.29	66,158	0.77	0.26
18,000	18,000	48,283	0.38	50,928	0.36	57,113	0.70	0.20
20,000	20,000	48,283	0.42	47,502	0.42	51,348	0.64	0.17





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Marentette, Julie

From: Browne, Ryan
Sent: March-21-17 1:58 PM
To: Marentette, Julie
Subject: Atlantic Mackerel Advisory Committee / Comité consultatif du maquereau de l'Atlantique
Attachments: AMAC_Agenda.pdf; AMAC_Invitation_2017.pdf; AMAC_Agenda-fr.pdf

SENT ON BEHALF OF BRIAN LESTER, CHAIR, ATLANTIC MACKEREL ADVISORY COMMITTEE (AMAC)
ENVOYÉ DE LA PART DE BRIAN LESTER, PRÉSIDENT, COMITÉ CONSULTATIF DE MAQUEREAU ATLANTIQUE (CCMA)

Hello All,

Attached please find the agenda as well as a copy of the previously sent invitation for the Atlantic Mackerel Advisory Committee meeting, taking place Thursday, March 30, 2017 in Halifax at the Delta Halifax Hotel, 1990 Barrington Street, Scotia Square, Halifax, NS. (902) 425-6700).

Please note that there are rooms blocked at the hotel until March 14th should you require accommodation.

Bonjour à tous,
Veuillez trouver ci-joint l'ordre du jour ainsi que l'invitation originale pour la réunion du Comité consultatif de maquereau de l'Atlantique qui aura lieu le 30 mars à l'hôtel Delta Halifax, 1990 rue Barrington, Scotia Square, Halifax, N-E (902) 425-6700.

Veuillez noter qu'il y a des chambres réservées à l'hôtel d'ici le 14 mars si vous avez besoin du logement.

Thank you,
Merci,

Ryan Browne

Administrative Assistant, Resource Management
Fisheries and Oceans Canada / Government of Canada
ryan.browne@dfo-mpo.gc.ca / Tel: 613-991-1833

Adjoint Administratif, Gestion intégrée des ressources
Pêches et Océans Canada / Gouvernement du Canada
ryan.browne@dfo-mpo.gc.ca / Tél. : 613-991-1833

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Patterson, Pauline

De: Rivierre, Antoine
Envoyé: March-21-17 12:07 PM
À: Doniol-Valcroze, Thomas; Cawthray, Jenness; Mallet, Pierre; Thomas, Tashina; Gaudet, Mario; Dunne, Erin; Waters, Christa; Castonguay, Martin; Lester, Brian
Objet: RE: To discuss issues for AMAC



Appâts utilisés 2016.docx

De : Doniol-Valcroze, Thomas
Envoyé : March-21-17 9:58 AM
À : Cawthray, Jenness; Mallet, Pierre; Thomas, Tashina; Gaudet, Mario; Dunne, Erin; Waters, Christa; Rivierre, Antoine; Castonguay, Martin; Lester, Brian
Objet : RE: To discuss issues for AMAC

Hi all,

Here is a document for discussion during the call later this morning.

Best,
Thomas
<< Fichier: projections.docx >>

-----Rendez-vous d'origine-----
De : Cawthray, Jenness
Envoyé : 6 mars 2017 15:14
À : Cawthray, Jenness; Mallet, Pierre; Thomas, Tashina; Gaudet, Mario; Dunne, Erin; Waters, Christa; Doniol-Valcroze, Thomas; Rivierre, Antoine; Castonguay, Martin; Lester, Brian
Objet : To discuss issues for AMAC
Date : 21 mars 2017 11:30-12:30 (UTC-05:00) Est (É.-U. et Canada).
Où : conference call: 1-877-413-4790 code: [redacted]

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1 Appâts utilisés durant la saison 2016

Les pêcheurs ont quotidiennement inscrit au journal de bord électronique JOBEL les espèces, l'état, les quantités et la provenance de leurs appâts, données qui ont été compilées par le RPPSG. Le MPO exige de l'information uniquement sur l'appât principal, mais le RPPSG demande à ses membres d'inscrire l'appât principal et si possible l'appât secondaire. JOBEL donne aux pêcheurs la possibilité d'inscrire jusqu'à trois différents appâts. Sur les 160 détenteurs de permis ayant transmis leurs données, 74 ont déclaré un appât secondaire à au moins une occasion.

L'appât principal utilisé en Gaspésie durant la saison 2016 a été le maquereau bleu du stock Atlantique (Tableau 1), une quantité totale de 1 814 546 lb (823 078 kg) qui représentait 77,9 % de la quantité totale d'appât utilisé (2 327 839 lb, ou 1 055 908 kg). Cela représentait une augmentation de 6,4 % par rapport à la quantité de maquereaux utilisée en 2015 (1 705 744 lb, ou 773 725 kg). Il constituait 81,2 % de l'appât principal (Tableau 2) et 41,0 % de l'appât secondaire (Tableau 3). Le deuxième appât en importance était le hareng du stock Atlantique, une quantité totale de 244 202 lb (109 863 kg) représentant 10,5 % de la quantité totale d'appât utilisé (Tableau 1). Il constituait 8,2 % de l'appât principal et 36,5 % de l'appât secondaire (Tableau 2 et 3).

Des poissons congelés d'une origine autre que l'Atlantique, en grande partie du maquereau, étaient le troisième appât en importance (170,877 lb, ou 77 510 kg), représentant 7,3 % de la quantité totale d'appât utilisé. Suivait le poisson de fond non spécifié (58 008 lb, ou 26 312 kg pour 2,5 %) et les diverses espèces de plies (36 053 lb, ou 16 354 kg pour 1,5 %). Une très faible quantité de crabes communs a été utilisée comme appât selon les déclarations, seulement 4 153 lb (1 884 kg) représentant 0,2 % de l'appât.

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Tableau 1 Quantité totale des différentes espèces utilisées comme appât pour la pêche au homard dans les différentes ZPH de la Gaspésie selon les données inscrites dans Jobel en 2016.

Sous-zone de pêche	Nombre de permis	Quantité totale des différentes espèces utilisées comme appât (Lb)						Quantité totale d'appât (Lb)
		Crabe commun	Hareng Atlantique	Maquereau bleu Atlantique	Plie non spécifiée Atlantique	Poisson de fond non spécifié	Poisson divers importés	
19A-19B-19C	8	785	32,659	43,566	770	34,163	1,600	**113,543**
20A1-20A2	23	2,473	2,404	221,889	401	2,767	44,029	**273,963**
20A3-20A3A	7	0	200	93,577	0	1,059	15,181	**110,017**
20A4	6	0	5,100	76,843	0	0	10,721	**92,664**
20A5	5	20	950	59,497	520	2,965	6,905	**70,857**
20A6	6	250	200	119,213	350	0	2,150	**122,163**
20A7	4	0	5,945	46,357	0	950	5,635	**58,887**
20A8	5	0	1,900	60,450	0	0	2,971	**65,321**
20A9-20A9A	16	0	12,545	240,814	0	540	14,953	**268,852**
20A10	5	200	5,740	71,173	611	308	23,354	**101,386**
20B1	18	0	23,382	231,560	2,509	250	18,240	**275,941**
20B2-20B3	9	0	7,955	84,105	650	730	7,856	**101,296**
20B4	16	0	65,407	209,367	1,198	530	601	**277,103**
20B5	6	0	27,598	58,339	2,515	3,816	9,269	**101,537**
20B6	10	200	35,767	103,416	894	80	1,325	**141,682**
20B7-20B8	5	225	2,850	32,542	14,198	1,500	0	**51,315**
21A-21B	11	0	13,600	61,838	11,437	8,350	6,087	**101,312**
TOTAL	**160**	**4,153**	**244,202**	**1,814,546**	**36,053**	**58,008**	**170,877**	**2,327,839**
PROPORTION (%)		**0.2%**	**10.5%**	**77.9%**	**1.5%**	**2.5%**	**7.3%**	**100.0%**
GRAND TOTAL		**2,327,839**						
Quantité moyenne de chaque espèce d'appât par pêcheur (lb)		21	1,491	11,382	298	429	1,151	**14,772**
Écart-type		35	1,560	3,611	702	1,020	1,136	**3,105**

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Tableau 2 Quantité des différentes espèces utilisées comme appât principal pour la pêche au homard dans les différentes ZPH de la Gaspésie selon les données inscrites dans Jobel en 2016.

Sous-zone de pêche	Nombre de permis	Quantité des différentes espèces utilisées comme appât principal (Lb)						Quantité totale d'appât (Lb)
		Crabe commun	Hareng Atlantique	Maquereau bleu Atlantique	Plie non spécifiée Atlantique	Poisson de fond non spécifié Atlantique	Poisson divers importés	
19A-19B-19C	8	785	31,824	39,596	730	25,152	1,600	**99,687**
20A1-20A2	23	2,473	825	196,938	401	0	43,295	**243,932**
20A3-20A3A	7	0	0	92,877	0	0	15,181	**108,058**
20A4	6	0	200	74,493	0	0	10,721	**85,414**
20A5	5	20	0	56,822	520	0	6,170	**63,532**
20A6	6	250	0	118,263	350	0	2,150	**121,013**
20A7	4	0	4,200	46,357	0	250	5,635	**56,442**
20A8	5	0	1,900	60,050	0	0	2,971	**64,921**
20A9-20A9A	16	0	440	239,524	0	0	10,863	**250,827**
20A10	5	200	3,350	69,833	611	0	21,483	**95,477**
20B1	18	0	11,175	224,827	2,509	250	18,240	**257,001**
20B2-20B3	9	0	5,105	82,311	650	0	7,856	**95,922**
20B4	16	0	57,147	204,122	1,198	80	601	**263,148**
20B5	6	0	15,545	53,519	2,515	0	9,269	**80,848**
20B6	10	200	30,847	101,941	894	0	1,325	**135,207**
20B7-20B8	5	225	1,900	22,107	14,198	0	0	**38,430**
21A-21B	11	0	11,990	54,773	11,437	200	3,872	**82,272**
TOTAL	**160**	**4,153**	**176,448**	**1,738,353**	**36,013**	**25,932**	**161,232**	**2,142,131**
PROPORTION (%)		**0.2%**	**8.2%**	**81.2%**	**1.7%**	**1.2%**	**7.5%**	
GRAND TOTAL		**2,142,131**						

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Tableau 3 Quantité des différentes espèces utilisées comme appât secondaire pour la pêche au homard dans les différentes ZPH de la Gaspésie selon les données inscrites dans Jobel en 2016.

Sous-zone de pêche	Nombre de permis	Quantités de différentes espèces de poissons utilisées comme appât secondaire (Lb)					Quantité totale d'appât (Lb)
		Hareng Atlantique	Maquereau bleu Atlantique	Plie non spécifiée Atlantique	Poisson de fond non spécifié Atlantique	Poisson divers importés	
19A-19B-19C	8	835	3,970	40	9,011	0	**13,856**
20A1-20A2	23	1,579	24,951	0	2,767	734	**30,031**
20A3-20A3A	7	200	700	0	1,059	0	**1,959**
20A4	6	4,900	2,350	0	0	0	**7,250**
20A5	5	950	2,675	0	2,965	735	**7,325**
20A6	6	200	950	0	0	0	**1,150**
20A7	4	1,745	0	0	700	0	**2,445**
20A8	5	0	400	0	0	0	**400**
20A9-20A9A	16	12,105	1,290	0	540	4,090	**18,025**
20A10	5	2,390	1,340	0	308	1,871	**5,909**
20B1	18	12,207	6,733	0	0	0	**18,940**
20B2-20B3	9	2,850	1,794	0	730	0	**5,374**
20B4	16	8,260	5,245	0	450	0	**13,955**
20B5	6	12,053	4,820	0	3,816	0	**20,689**
20B6	10	4,920	1,475	0	80	0	**6,475**
20B7-20B8	5	950	10,435	0	1,500	0	**12,885**
21A-21B	11	1,610	7,065	0	8,150	2,215	**19,040**
TOTAL	**160**	**67,754**	**76,193**	**40**	**32,076**	**9,645**	**185,708**
PROPORTION (%)		**36.5%**	**41.0%**	**0.0%**	**17.3%**	**5.2%**	
GRAND TOTAL (lb)		**185,708**					

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Cormier, Mélanie

De: Cawthray, Jenness
Envoyé: 21 mars 2017 08:14
À: Rivierre, Antoine; Castonguay, Martin; Doniol-Valcroze, Thomas; Dunne, Erin; Mallet, Pierre; Thomas, Tashina; Gaudet, Mario; Waters, Christa
Objet: RE: Atlantic Mackerel Advisory Committee / Comité consultatif du maquereau de l'Atlantique

The original invitation was for the 29th; however, we changed to the 28th as we heard from APC that they already had a conference on the 29th.
I plan to send another email with request for confirmation today so will re-iterate the new date again so it is clear.
Thanks,
Jenness

From: Rivierre, Antoine
Sent: March-20-17 3:51 PM
To: Cawthray, Jenness; Castonguay, Martin; Doniol-Valcroze, Thomas; Dunne, Erin; Mallet, Pierre; Thomas, Tashina; Gaudet, Mario; Waters, Christa
Subject: RE: Atlantic Mackerel Advisory Committee / Comité consultatif du maquereau de l'Atlantique

28 or 29 th of march ?

The invitation is for the 29 th !

Antoine

De : Cawthray, Jenness
Envoyé : March-20-17 3:21 PM
À : Castonguay, Martin; Doniol-Valcroze, Thomas; Dunne, Erin; Mallet, Pierre; Thomas, Tashina; Gaudet, Mario; Rivierre, Antoine; Waters, Christa
Objet : FW: Atlantic Mackerel Advisory Committee / Comité consultatif du maquereau de l'Atlantique

Hi All,
Here is the invitation for the aboriginal supplementary meeting on Tuesday, March 28th in Halifax. Two days before AMAC. We had to adjust the date as there was an APC meeting happening at the same time as our original date.
Thanks
Jenness

From: Cawthray, Jenness
Sent: March-20-17 12:48 PM
To: Dunne, Erin
Subject: FW: Atlantic Mackerel Advisory Committee / Comité consultatif du maquereau de l'Atlantique

Here you go!

From: Browne, Ryan
Sent: March-14-17 10:46 AM
Subject: Atlantic Mackerel Advisory Committee / Comité consultatif du maquereau de l'Atlantique

SENT ON BEHALF OF BRIAN LESTER, CHAIR, ATLANTIC MACKEREL ADVISORY COMMITTEE (AMAC)

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ENVOYÉ DE LA PART DE BRIAN LESTER, PRÉSIDENT, COMITÉ CONSULTATIF DE MAQUEREAU ATLANTIQUE (CCMA)

Further to the attached invitation to the supplementary AMAC meeting, please note this supplementary meeting is now scheduled for **Tuesday, March 28th from 1:00 pm to 4:00 pm** in Halifax, NS at the Delta Halifax, 1990 Barrington Street, Halifax, NS (902) 425-6700).

Please contact Jenness Cawthray at Jenness.Cawthray@dfo-mpo.gc.ca with any questions.

Suite à l'invitation ci-jointe à la réunion supplémentaire d'AMAC, veuillez noter que cette réunion supplémentaire aura lieu **mardi le 28 mars de 13 h à 16 h** à Halifax (N.-É.) au Delta Halifax, 1990 rue Barrington, Halifax (N.-É.) (902) 425-6700).

Veuillez communiquer avec Jenness Cawthray à Jenness.Cawthray@dfo-mpo.gc.ca si vous avez des questions.

Thank you,
Merci,

Ryan Browne

Administrative Assistant, Resource Management
Fisheries and Oceans Canada / Government of Canada
ryan.browne@dfo-mpo.gc.ca / Tel: 613-991-1833

Adjoint Administratif, Gestion intégrée des ressources
Pêches et Océans Canada / Gouvernement du Canada
ryan.browne@dfo-mpo.gc.ca / Tél. : 613-991-1833

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Cormier, Mélanie

De: Doniol-Valcroze, Thomas
Envoyé: 21 mars 2017 12:42
À: Rivierre, Antoine
Objet: RE: Trac process ??

L'industrie est inquiète qu'un processus de joint management qui intègre les prises US et les prises canadiennes vienne réduire les TACs, je suppose.

De : Rivierre, Antoine
Envoyé : 21 mars 2017 12:37
À : Doniol-Valcroze, Thomas
Objet : RE: Trac process ??

☺

Merci mais je comprends toujours pas en quoi c'est un problème pour les maritime ??

De : Doniol-Valcroze, Thomas
Envoyé : March-21-17 12:36 PM
À : Rivierre, Antoine
Objet : RE: Trac process ??

Transboundary Resources Assessment Committee

De : Rivierre, Antoine
Envoyé : 21 mars 2017 12:27
À : Doniol-Valcroze, Thomas
Objet : Trac process ??

C'ets quoi un trac process ??

Antoine Rivierre

Conseiller principal p. i.,
Espèces pélagiques, mammifères marins
Gestion de la ressource et des affaires autochtones / Pêches et Océans Canada / Gouvernement du Canada
Antoine.rivierre@dfo-mpo.gc.ca / Tél. : 418.640.2636

Senior Advisor a. i.,
Pelagic species, Marine Mammals
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Antoine.rivierre@dfo-mpo.gc.ca / Tél. : 418.640.2636

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s.21(1)(b)

Krohn, Martha

From: Marentette, Julie
Sent: March-22-17 10:46 AM
To: Krohn, Martha; Landry, Jean
Subject: Mackerel update

Categories: Red Category

Hi Jean and Martha,

I spoke with Thomas this morning. A **revised projections table is pending later on today** and will be extended downward.

What FM has seen: FM (Brian Lester/Jenness Cawthray from NCR, and some regional FM staff) has seen:

- the draft projection table
- the draft bullets

There has been lots of discussion with FM so far on the implications of the Total Catch column, see below. FM is aware of the same issue we are.
FM also thought the table doesn't need to be extended

Where regional Science briefing is at: a revised briefing note and bullets were set to Yves last Thursday and that is the most recent update. These items do need to be approved this week.

Best regards,

Julie Marentette, Ph.D.

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Science Advisor, Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Julie.Marentette@dfo-mpo.gc.ca /Tel: 613-943-2098

Conseillère scientifique, Sciences des populations halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Julie.Marentette@dfo-mpo.gc.ca /Tél: 613-943-2098

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s.21(1)(b)

Krohn, Martha

From: Landry, Jean
Sent: March-22-17 8:24 PM
To: Marentette, Julie; Krohn, Martha
Subject: TR: Updated Mackerel Package for ADM (with new projections table)
Attachments: Atlantic Mackerel 2017-03-22.docx; Atlantic Mackerel 101 March 22 2017.pdf; Atlantic Mackerel Assessment Briefing Deck 170322.ppt; projections.docx

Categories: Red Category

Many thanks Julie for this,

- I just gave a quick look at a couple of documents (fish wall and the slide 14 of the deck). I have highlighted few strings in yellow.

. AMAC should discuss about potential commercial TAC, taking into account the fact that total catches may be higher because of unreported catches. Can we modify this statement and also make a last review of all documents before I share with Arran (and before we share with Trevor and EFM at HQ)?

Any idea of whom in EFM has seen the shorter decision table yet?
Should we expect final bullets (RDS approved) of the SAR soon?

Martha: Available to discuss tomorrow if necessary. Assuming Julie will be on travel

Jean

Jean Landry

Director , Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Jean.Landry@dfo-mpo.gc.ca / Tel: 613-993-0029

Directeur, Sciences halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Jean.Landry@dfo-mpo.gc.ca / Tél. : 613-993-0029

Government of Canada Gouvernement du Canada

Canada

De : Marentette, Julie
Envoyé : 22 mars 2017 14:18
À : Krohn, Martha <Martha.Krohn@dfo-mpo.gc.ca>; Landry, Jean <Jean.Landry@dfo-mpo.gc.ca>
Objet : Updated Mackerel Package for ADM (with new projections table)

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Hello Martha and Jean,

Please find attached the **new projections table including the risk-neutral scenario for SSB growth**, and the updated deck, 101 and wall that contains the new information. Projections are described on slide 14 of the deck, the Key Issues section of the fish wall and on page 4 of the 101.

FM has seen a shorter version of this table. Note that Total Catches column title has now been replaced by Declared + Undeclared.

Best regards,

Julie Marentette, Ph.D.

Science Advisor, Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Julie.Marentette@dfo-mpo.gc.ca /Tel: 613-943-2098

Conseillère scientifique, Sciences des populations halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Julie.Marentette@dfo-mpo.gc.ca /Tél: 613-943-2098

From: Krohn, Martha
Sent: March-22-17 1:41 PM
To: Landry, Jean
Cc: Marentette, Julie
Subject: RE: Mackerel Package for ADM (no new table)

Hi Jean,
Julie received the new table with the risk neutral projection on it, so you may want to wait before forwarding.
Thanks,
Martha

From: Krohn, Martha
Sent: March-22-17 11:29 AM
To: Landry, Jean
Cc: Marentette, Julie
Subject: FW: Mackerel Package for ADM (no new table)

Hi Jean,
Here is the updated mackerel package. (Not expecting the declared catch column)
Thanks Julie!
Martha

From: Marentette, Julie
Sent: March-22-17 11:26 AM
To: Krohn, Martha
Subject: Mackerel Package for ADM (no new table)

Hi Martha,

If we decide to send up as is, I've included details about the projections in the slide deck and 101 as well as an independent document. (for your interest, slide 14 of deck, paragraph on page 4 of the 101)

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No risk neutral approach for stock growth by 2019 has yet been received from regional Science. So the information here is what we had as of yesterday.

Best regards,

Julie Marentette, Ph.D.

Science Advisor, Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Julie.Marentette@dfo-mpo.gc.ca /Tel: 613-943-2098

Conseillère scientifique, Sciences des populations halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Julie.Marentette@dfo-mpo.gc.ca /Tél: 613-943-2098

Pages 1328 to / à 1330

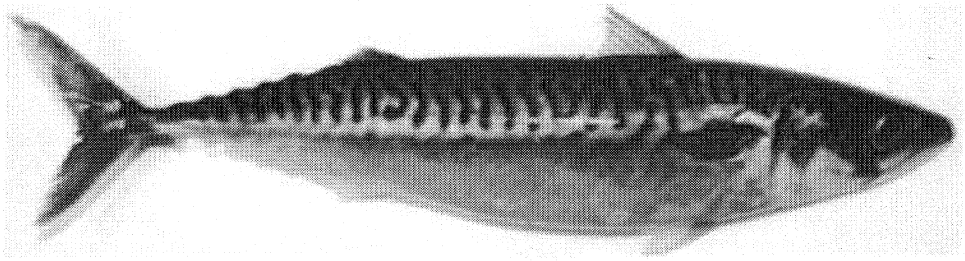
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Atlantic Mackerel (*Scomber scombrus*)



Biology

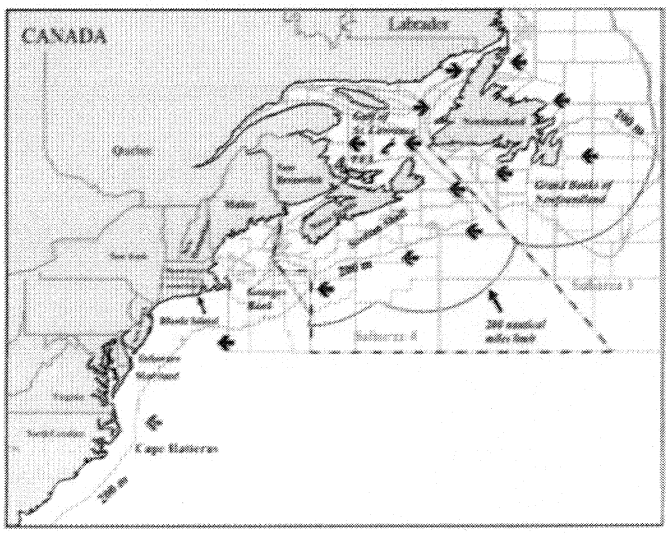
The Atlantic Mackerel is a schooling and migratory species distributed in waters north of Newfoundland down to waters off of North Carolina in the south.

Mackerel are pelagic (inhabit the upper water column), occupying depths of 70-200 m on the continental shelf in the winter.

Mackerel overwinter on the continental shelf and come inshore and to the Gulf of St. Lawrence in the spring and summer to feed and to spawn. The only important spawning area known in Canada is in the southern Gulf of St. Lawrence (NAFO Division 4T). There is also another spawning area in the US on the mid-Atlantic Bight (between Cape Cod and Cape Hatteras.

Atlantic mackerel are 100% sexually mature at ~ 30 cm, or around age 3.

Distribution of Northwest Atlantic Mackerel



<u>Canadian stock area (NAFO Subareas 3 & 4):</u>
Gulf of Saint Lawrence, surrounding Newfoundland, Bay of Fundy, and Scotian shelf.

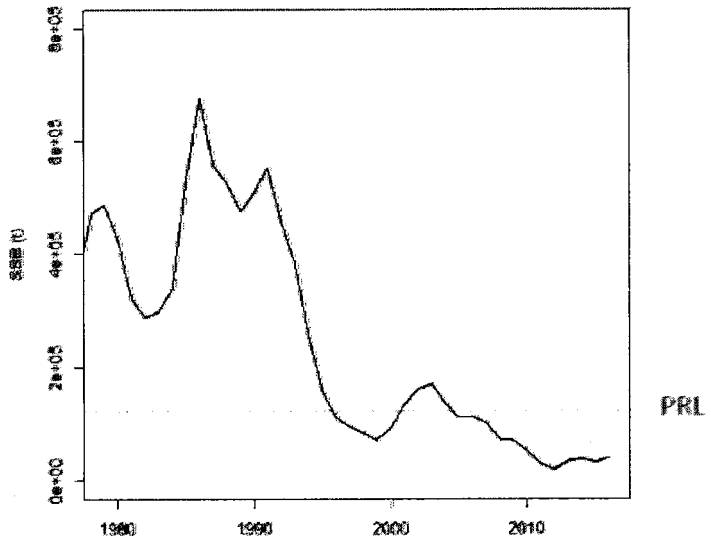
<u>American stock area (NAFO Subareas 5 & 6):</u>
Georges Bank, Gulf of Maine, mid-Atlantic Bight south to North Carolina

There are two contingents, one spawns in Canadian waters (in the Gulf of St. Lawrence), and one spawns in US waters (on the northeast US coastal shelf). It remains to be determined if the two contingents form distinct stocks. It is thought that American mackerel does not migrate to Canadian waters but Canadian mackerel does migrate to US waters in the winter and is targeted by the US

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fishery. As a result, stock assessment in Canada concerns subareas 3-4 only while stock assessment in the US concerns the entire range, i.e., subareas 3 to 6.

Stock status in brief



The most recent full stock assessment was performed in March 2017 (SAR pending), with another planned for 2019.

Based on the 2017 assessment, Atlantic Mackerel spawning stock biomass (SSB) has been decreasing steadily since the early 2000's, part of a longer term decline starting around 1990. The SSB is currently estimated at 40,000 t, below the Limit Reference Point ('PRL,' left) of 103,000 t (40% Bmsy) and therefore in the Critical Zone.

Age-structure has contracted in recent years; the 6 to 12 year-old age-classes and above were absent from the population. Collapsed age structure is an indication of over-exploitation. A slight expansion of the age structure has been observed since 2013 with the presence of proportionately more 4 to 6 year old individuals in 2016.

Fishery

The fishery is composed of large and small purse seiners, tuck seines (modified bar seines) and other fixed gear (traps, gillnets, lines and weirs). Large seiners have been allocated 40% of the TAC with small seiners and fixed gear allocated 60% of the TAC in recent years. Annual landed value in Canada is ~$5 million.

Historical landings for the whole stock, including those in US waters, were much higher than in recent years, reaching as high as 250 000 tonnes (t; 1970—1976). Past TACs were also high, having been set at 200 000 t between 1987 and 2000. Total American and Canadian landings are now a small fraction of those levels; for example, total recorded catches between the two countries were only 12 681 t in 2013.

Since 2000, TAC levels have been incrementally reduced. In 2012 and 2013 the TAC was 36 000 t, then reduced to 10 000 t in 2014 and again to 8 000 t in 2015-2016.

Reported Canadian landings between 2012—2015 have ranged from 4.1 to 7.4 thousand t, well below the TAC, with landings in 2015 being the lowest landings on record. However, an increase in landings was observed in 2016. The fishery was in fact closed in October 2016 as the TAC of 8 000 t was achieved (see table below).

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*Table: Canadian Mackerel TAC and landings from 2000 to 2016 ('000s tonnes; * preliminary)*

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016*
TAC	100	75	75	75	75	75	75	75	75	75	40	40	36	36	10	8	8
Catch	16.0	24.4	34.7	44.7	53.8	54.6	53.6	53.0	29.7	42.2	38.8	11.4	6.5	7.4	6.4	4.1	8
% TAC caught	16	33	46	60	72	73	71	71	40	56	97	43	18	20	64	51	100

Removals associated with the bait and recreational fisheries are not quantified and are known to be significant. Lack of information on these sources of catch is seen as one of the key uncertainties in assessing and managing the stock.

The minimum legal catch size is 26.3 cm and discarding of under-sized fish has been identified by Science as a concern. The extent and impact of these discards on the stock is hard to quantify.

The MSC certification of the Bay of Fundy, Scotian Shelf and Southern Gulf of St. Lawrence lobster fisheries requires a strategy to ensure that the mackerel bait fishery does not hinder the recovery and rebuilding of the Canadian mackerel stock.

Monitoring and assessment

Annual egg surveys in the southern Gulf of St. Lawrence are used for generating the abundance index. The abundance index from the egg survey, along with catch-at-age data from commercial samples, is used in the assessment model.

At the request of industry, the Province of Newfoundland committed funding towards a new egg survey in Area 3K (northeast coast of NL) in 2015 and 2016 to determine if there may be another significant spawning area for mackerel on the Canadian east coast. However, this study and a previous attempt to find additional significant spawning areas in 2009 did not show any sign of spawning activity and no new spawning areas have been discovered.

An internet survey of recreational and bait use of Mackerel by fishermen was conducted in late 2016 which, when paired with a literature review to estimate past recreational and bait use, generated an estimate of the magnitude of undeclared Mackerel landings in the Atlantic region. In January 2017, a new framework assessment model (censored statistical catch-at-age or SCA model) was developed to estimate total catch, using the internet survey and literature review to generate an upper limit on total catches and using declared landings as the lower limit. It is possible that the internet survey and literature review still underestimate total catch.

Science advice on stock status and removal rates

<u>Advice on stock status</u>

Although both the 2014 and newly proposed 2017 assessment models likely underestimate absolute stock size (because total catch is underestimated), there is high certainty in the declining stock trend. This is true even though the 2017 assessment model predicts a SSB of 40,000 t (a quantity 10-fold higher than in 2014, reflecting the increased credibility of the model). While increasing the upper limit of the censored SCA model (to reflect

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increased uncertainty) does result in overall increase in catches, the pattern of stock decline is robust to these changes.

The estimated SSB for the whole NW Atlantic Mackerel population including the American component is highly correlated to the SSB assessed from the Canadian assessment, indicating that the Canadian assessment (calibrated by egg densities in the Gulf) may be a good index of the SSB trend of the whole population.

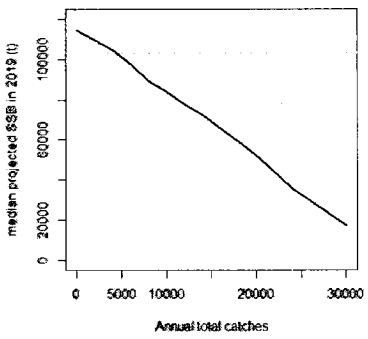
In 2014, age-structure was reported as contracting - the 6 to 12 year-old age-classes and above had been lost from the population. In 2017, the age-structure has broadened slightly with more 5- and 6-year-old fish present, and there are some weak indications, based on commercial sampling data and industry observations, that there may have been a strong 2015 year class. However, more data are needed to whether this has in fact occurred (e.g., the 2017 egg survey).

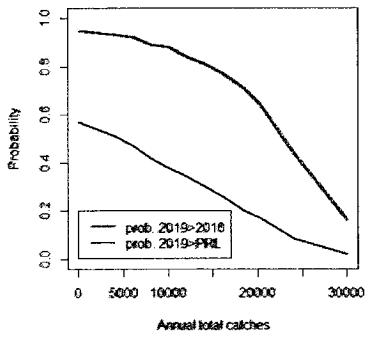
Limit Reference Point

At a CSAS peer review in April 2014, Quebec region proposed a number of potential limit reference points (LRP) for Atlantic Mackerel following the assessment, but no single point was adopted. Regardless of the LRP applied, the SSB for the stock fell deep in the critical zone.

At the assessment framework meeting in January 2017, 40% B_{msy} was selected as the LRP, which was calculated to be 103,000 t.

Projections





In the 2017 assessment, mackerel stock was projected to have at least a 50% chance of recovery over the LRP by 2019 if total annual catches (declared and undeclared) were limited to 4,000 t or lower in 2017 and 2018. SSB was projected to have at least a 50% chance of increasing over current levels by 2019 if total annual catches were limited to approximately 23,000 t or lower in 2017-2018.

However, commercial TAC (declared catch) is a subset of total catches, and will be determined following the Atlantic Mackerel Advisory Committee on March 30, 2017.

Current views from stakeholders and external context

Industry view generally is that the Mackerel stock is in better shape than it is according to the DFO stock assessment; their experience fishing is that Mackerel abundance is not as low as it is estimated to be according to the assessment.

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However it must be noted that Mackerel are schooling fish and stick to a narrow temperature range and therefore can be caught in large numbers even at low abundance. Because of this high degree of local aggregation, Mackerel are easy to deplete to very low levels and high abundance cannot be inferred from high catches in localized areas.

Some industry members are of the view that Mackerel is a "cyclical species", i.e. it has unpredictable strong year classes and a highly migratory nature, and therefore protection of the spawning stock is less critical. It is true that the spawner-per-recruit relationship for fish with a life history similar to Mackerel (short-lived early maturing fish) is typically weak – and that a good year-class can come from a small spawning stock biomass.

However, it must be noted that current low biomass levels are unprecedented and there is high uncertainty about how well the stock could recover from these low levels and even lower levels in the future. Also, the last few strong year classes have been quickly fished out as exploitation levels were very high, and thus did not have an opportunity to rebuild the stock.

If fishing pressure were to be reduced, recovery could be relatively quick compared to a later maturing gadoid, for instance. Restraint in the short-term could potentially materialize into a healthy productive stock in 5—10 years.

In September 2014, Atlantic Mackerel was put on a priority list by the Marine Fishes subcommittee of COSEWIC in consideration for assessment by COSEWIC given the high rate of decline in the stock and the large discrepancy between the science advice and the TAC. As of February 2017 Mackerel is still on this list as a medium priority. The subcommittee will be tracking the status of Atlantic Mackerel to determine if it should be moved forward for assessment. If the species were to be assessed as at risk, the Department would be required to make a decision on whether or not to list the species under SARA.

International context

The Northwest Atlantic Mackerel stock overlaps with the American stock in US waters and with that come some considerations for the management of the fishery. The US fishery is prosecuted on a mixed component in the winter.

Atlantic Mackerel is currently managed by DFO in Canadian waters, and by NOAA in US waters. The US assessment includes both the Canadian and the American mackerel contingents (NAFO Subareas 3-6) because their fishery is conducted in winter at a time when Canadian mackerel is present in US waters.

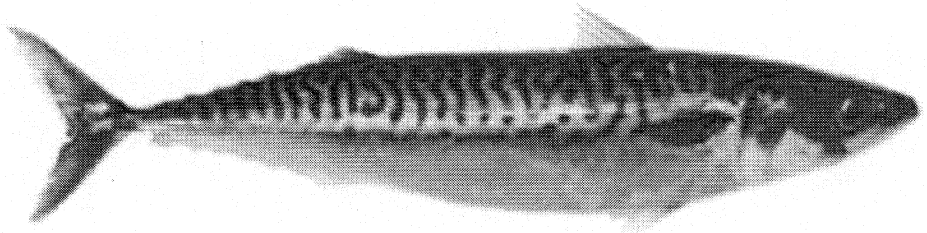
At the last Canada/US joint stock assessment in 2010, there were differing views between the two countries on the stock status that were in large part due to the lack of a robust assessment model. Since then, Canada has completed two stock assessments in (2012, 2014, 2017). The next US assessment is scheduled for fall 2017 and members of DFO Science will be present on the assessment working group.

There is Canadian industry support to resume work with the US on a joint stock assessment. Collaboration on the science and management will be critical to rebuilding the depleted stock.

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Briefing Update

Assessment of Atlantic Mackerel (NAFO Subareas 3-4)



March 8-9, 2017, Institut Maurice-Lamontagne, Mont-Joli, QC

Julie Marentette

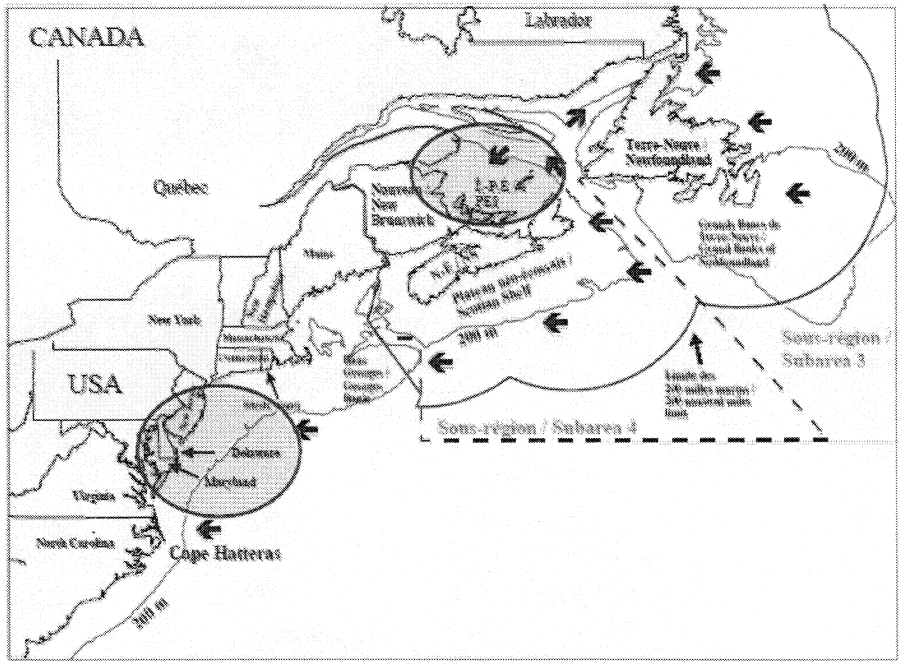
March 22, 2017

Canada

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Background

- Schooling, migratory, pelagic fish
- Used as bait for lobster/crab
- Spawn in Gulf of St. Lawrence, overwinter on continental shelf
- 50% mature at 1.4 years (26 cm)
- Fully mature and fully recruited to fishery by ~ age 3



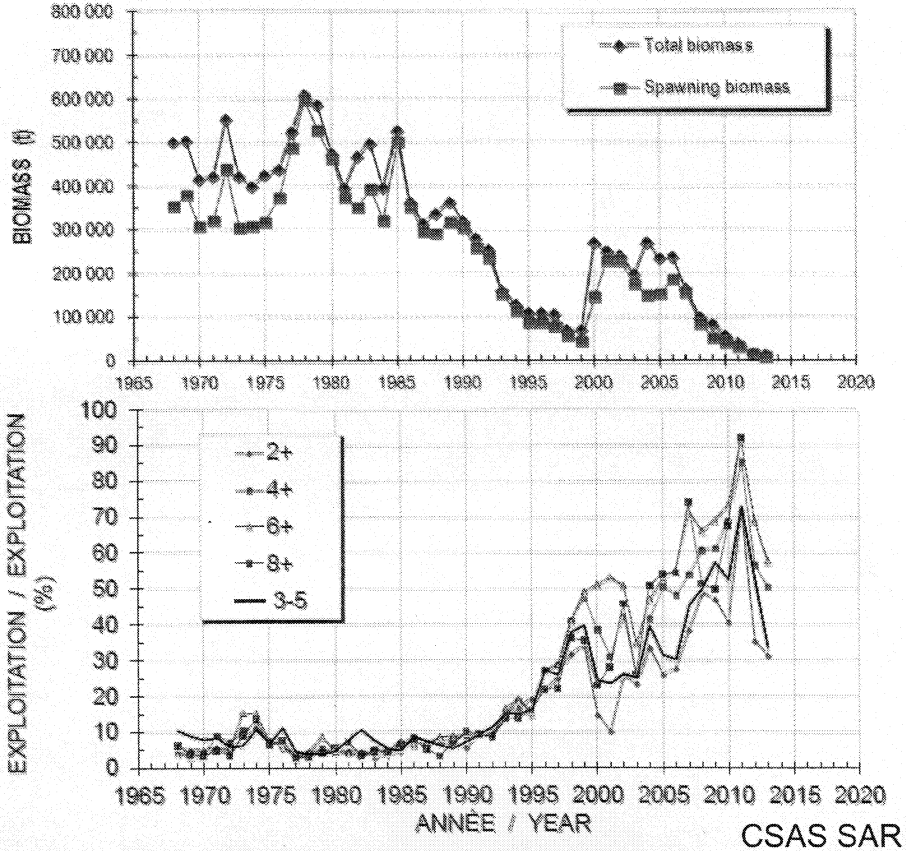
Castonguay, Doniol-Valcroze et al. in prep

Canada

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2014 Assessment – Where were we?

- Commercial landings and biomass ↓, fishing mortality ↑
- Egg survey ↓, contracting age structure
- Modelled stock abundance at lowest historic level in 2013
- **Stock status: Critical**, because SSB was below three candidate LRPs
- Based on Sequential Population Analysis (SPA) model and declared catches, SAR recommended TAC of 800 t
- Model predicted unrealistically low biomass
- TAC ultimately set at 8000 t



CSAS SAR 2014/030

Canada

001338

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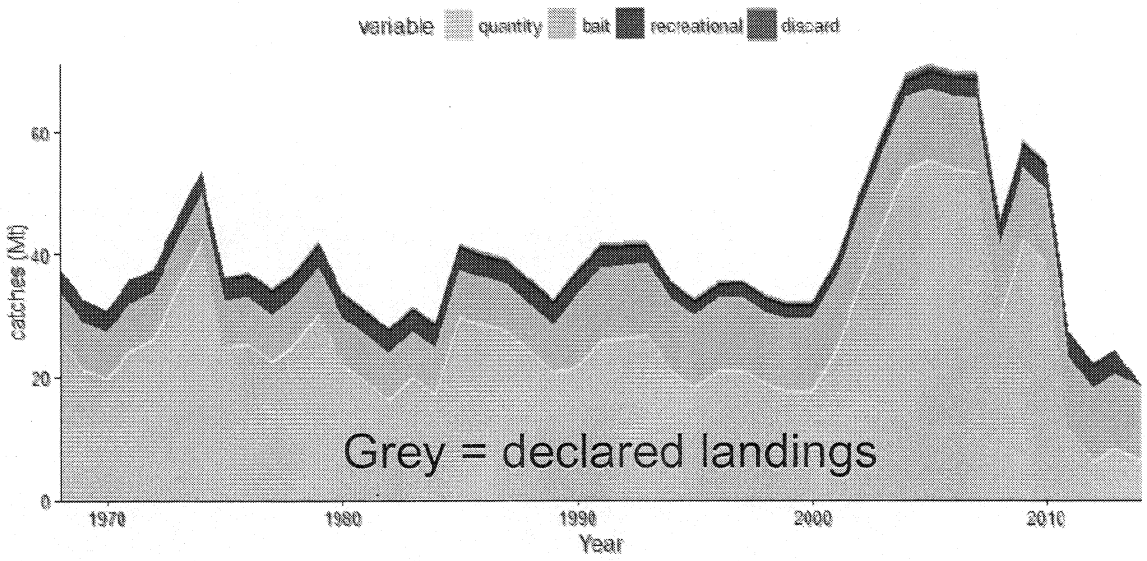
Uncertainty in the Mackerel Fishery

- Only commercial landings are declared
- Undeclared Mackerel caught as:
  - Bait for personal use
  - Sold fisher-to-fisher
  - Recreational use
  - Discard mortality, unfilled logbooks
- Unknown proportion of US landings are Northern (Canadian) fish

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2016: Estimating Undeclared Catch

- 2016 internet survey of recreational/bait use
- Literature review of region-specific bait needs
- Total catches can range from **150-200%** of declared catches



Van Beveren, Doniol-Valcroze et al. in prep

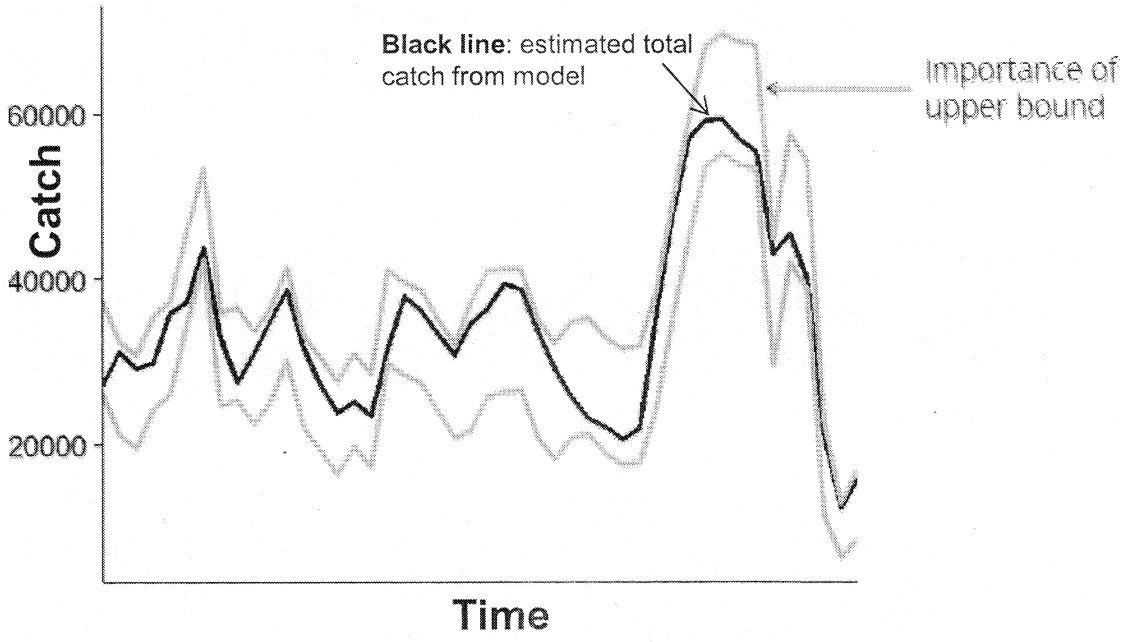
Canada

001340

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January 2017 – A New Framework

- A **censored statistical catch-at-age (SCA) model** was developed to accommodate uncertainty on catch
- Declared catch = lower limit
- Possible total catch = upper limit
- **Inputs**: limits, abundance index from egg survey, stock-recruit relationship, M, growth
- **Outputs**: Estimated 'actual' catch, total/spawning biomass, F, recruitment
- Results broadly consistent with 2014 assessment in pointing to recent declines



Van Beveren, Doniol-Valcroze et al. in prep

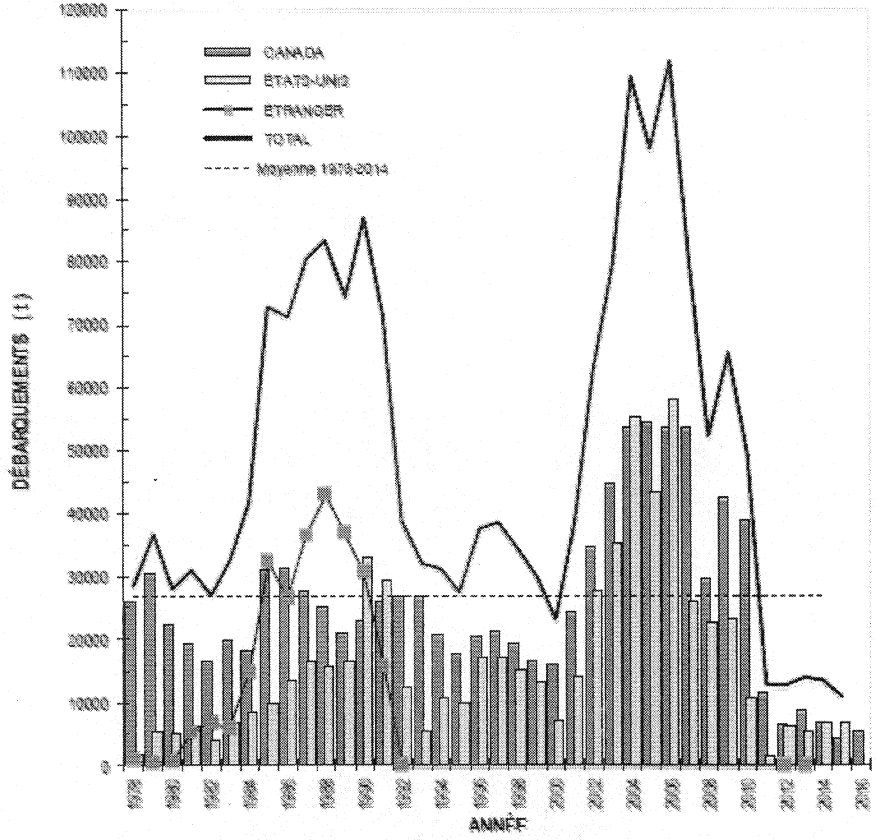
Canada

001341

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New Data – Commercial Catch 2013-16

- Declared catches continue to be low
- October 2016: Fishery closed as TAC of 8,000 t reached early
  - Most catches appear to be from NL (division 3K), instead of 4R
  - Regional data from 2016 still preliminary



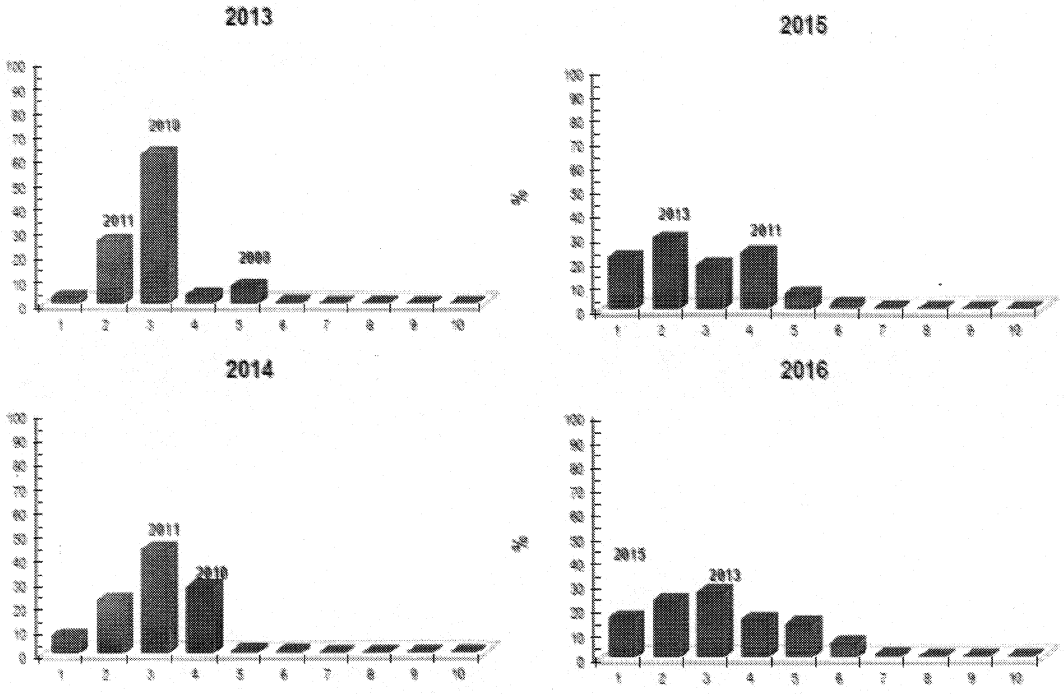
Doniol-Valcroze et al. in prep

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New Data – Age Structure 2013-16



Age structure has been expanding slightly since 2013.

Doniol-Valcroze et al. in prep

Canada

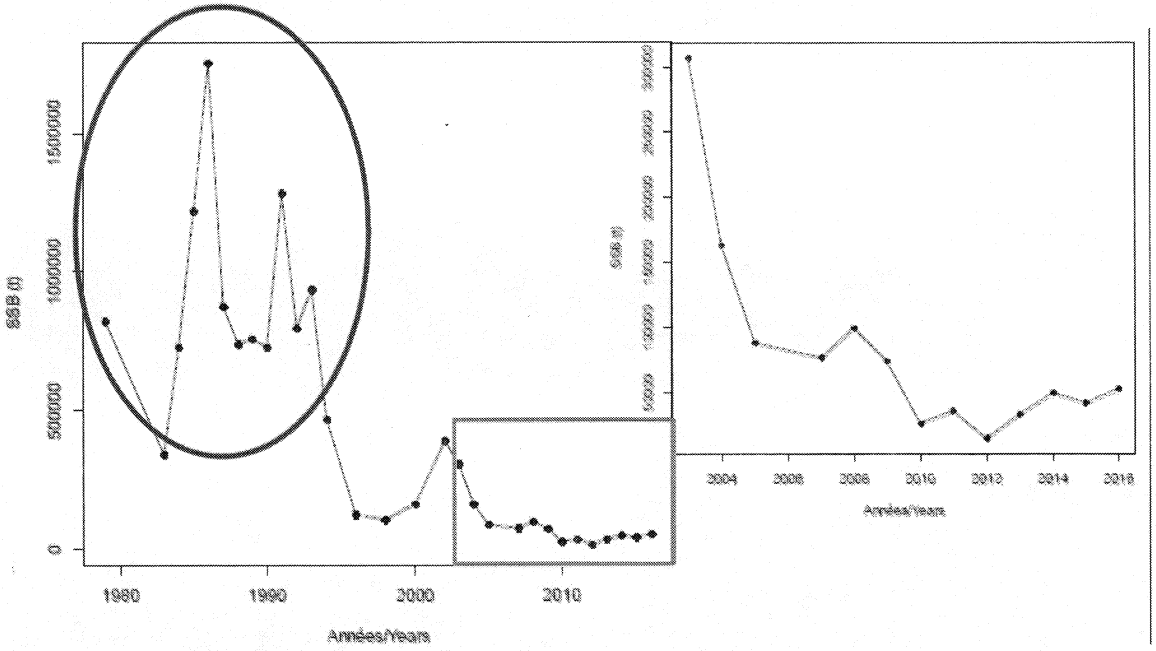
001343

Document Released Under the Access to Information Act / Document divulgué en vertu de la Loi sur l'accès à l'information.

New Data – Abundance Index from Egg Survey

Using the egg data alone, mackerel reached historically low spawning stock biomass (SSB) in 2012 and has slightly increased since.

SSB early in the time series (green circle) may be affected by issues with egg sampling methods.



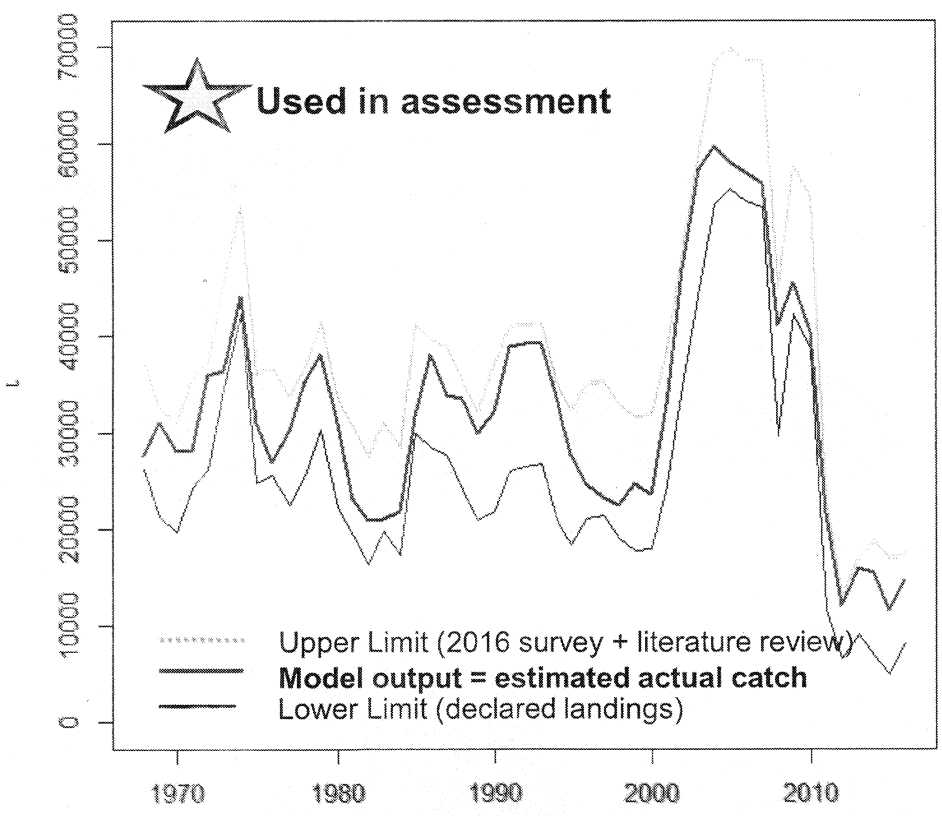
Doniol-Valcroze et al. in prep

Canada

001344

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March 2017 – Censored Model and New Data



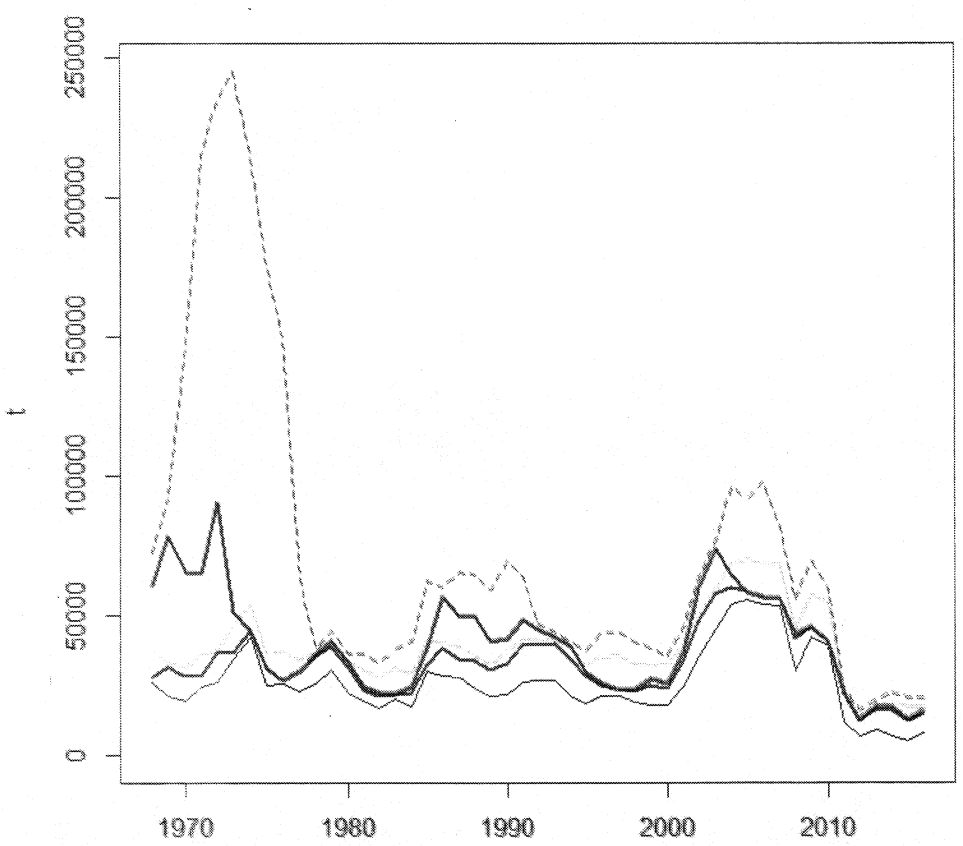
The censored SCA model indicates r**ecent declines in catches (since ~ 2005) are robust to changes in the model upper limit**, although total catch over the time series will increase as the upper limit increases. (The model will use some of the extra space you give it.)

Doniol-Valcroze et al. in prep

001345

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March 2017 – Censored Model and New Data



Upper Limit (50% US/foreign catch)

Model output = estimated actual catch

Upper Limit (2016 survey + literature review)

Model output = estimated actual catch

Lower Limit (declared landings)

Doniol-Valcroze et al. in prep

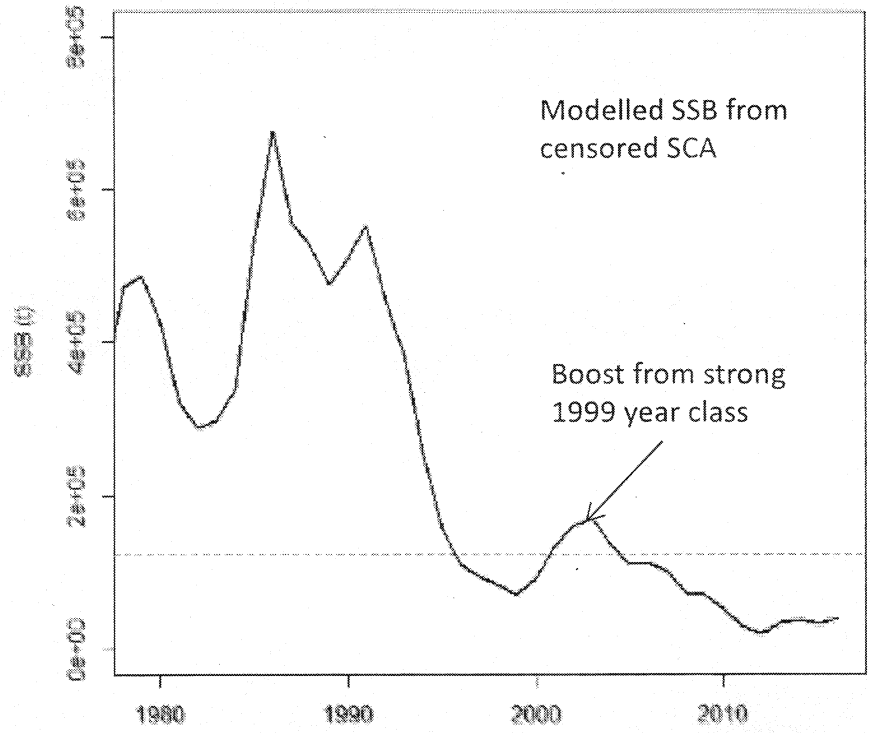
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001346

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March 2017 - Updated Stock Status

SSB (2016) = 40,000 t; F_{year} decreasing since 2011, but **stock status remains critical.**



Doniol-Valcroze et al. in prep

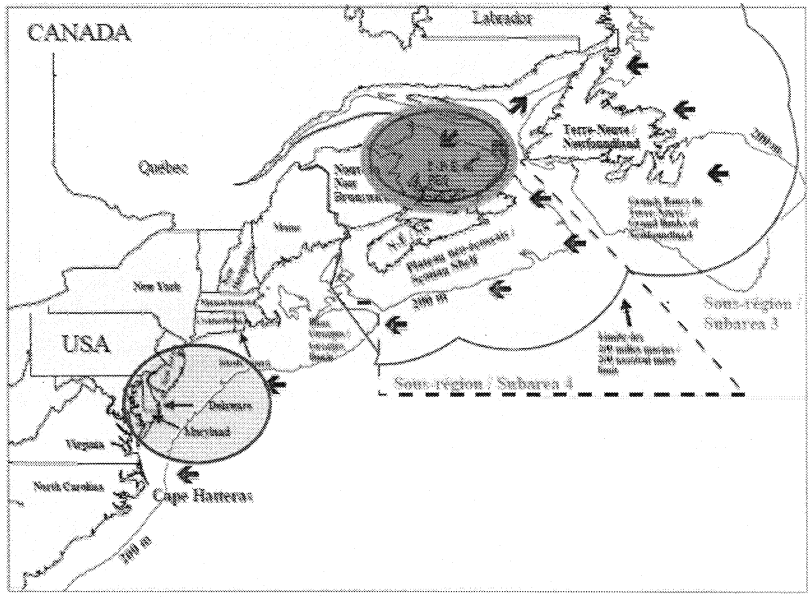
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Transboundary Concerns

- Northern + Southern contingents
- Genetically distinct from European stocks
- US and Canadian stocks do not (yet) appear to be genetically distinguished
  - more research upcoming
- Preliminary otolith microchemistry on age 3 fish in US trawls show they were spawned in Gulf of St. Lawrence, not Gulf of Maine (D. Secor, U. Maryland)
  - More samples being analyzed in advance of NOAA assessment



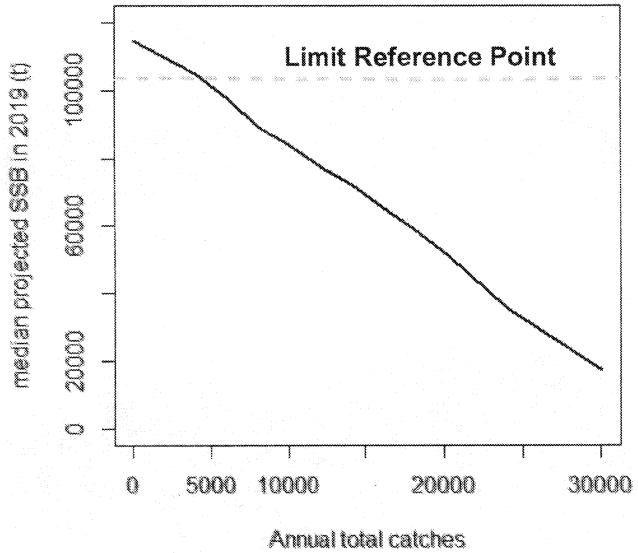
Doniol-Valcroze et al. in prep

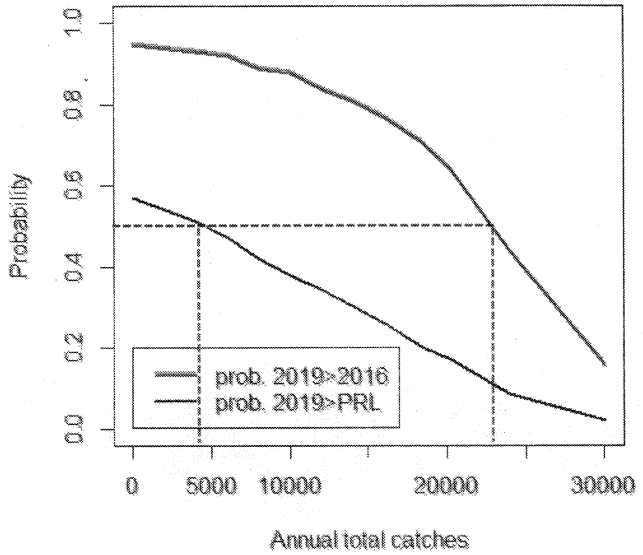
Canada

001348

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Looking forward: Projections

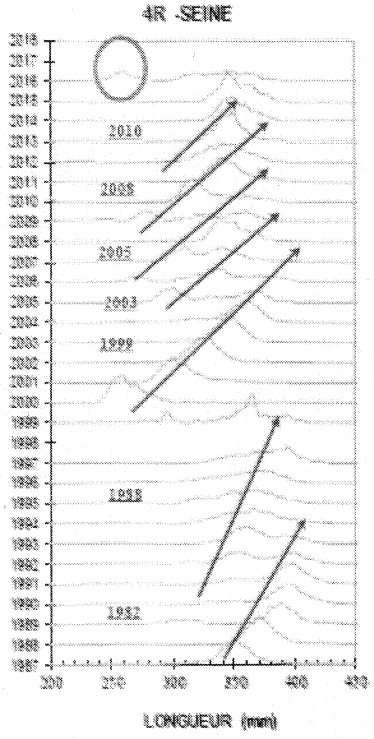


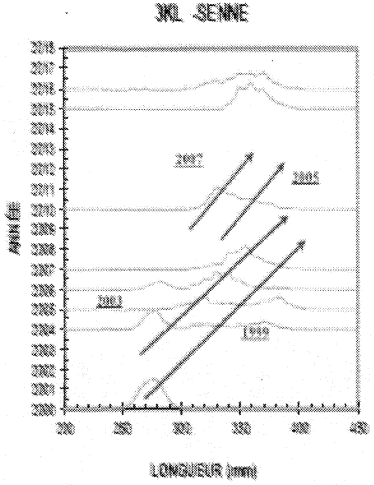


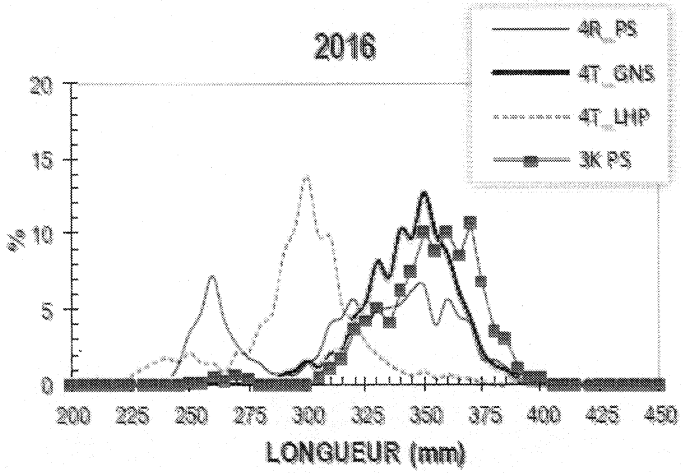
- Stock projected to have at least 50% chance of recovery over LRP by 2019 if total annual catches are no more than 4,000 t, and 50% chance of increase in SSB if total catches are no more than ~ 23,000 t, in 2017-2018
-

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Looking forward: 2015 Year Class?







Industry has reported **widespread observations of small mackerel**. Small fish are more likely to be seen in division 4R than in 3KL (4R is closer to spawning grounds). However, because the fishery closed early in 2016, most of the commercial catch data ended up coming from in 3KL, so the overall data signature of the young fish is weak. 2015 fish will start spawning in 2017 – egg survey.

Doniol-Valcroze et al. in prep

001350

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Looking forward: No Early Triggers for Stock Assessment

- Considered **not logistically feasible** for this fishery
- Annual Gulf egg survey conducted in spring/summer
- Commercial fishery samples (age/sex/weight/fecundity) not available until December of each year
  - These contribute data to convert egg survey to a stock abundance index
- With processing time, the window of opportunity to arrange a full stock assessment is too short (< 1-2 months)

Doniol-Valcroze et al. in prep

001351

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Industry Views

- State that stock is cyclical and more fish are in the water than what Science describes
- Science position:
  - 2017 assessment more credible, currently estimates 40,000 t SSB, whereas 2014 assessment estimated 3,949 t SSB (10-fold difference)
  - Overall trends in SSB are robust to moving the upper limit
- Report large amounts of 'pencil' (young) Mackerel in multiple regions
  - Expected to affect egg survey and appear in commercial catches in 2017

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Research on Mackerel

- Recent Research
  - 2015-2016 field surveys by DFO showed no new spawning grounds
  - Young of Year unexpectedly found in NAFO division 3K sent by DFO Science for genetic analyses
- Upcoming Research
  - Genomic studies to differentiate stocks (US vs. Canada vs. Europe)
  - Otolith microchemistry to target spawning origin (US & Canada)
  - Quantifying habitat for eggs and larvae (temperature, plankton)

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Next Steps

- SAR draft expected by March 24th
  - Will contain projections table for Fisheries Management
- AMAC (Advisory Council) – March 30th in Halifax
  - TAC decision to follow (end of April)
- Mackerel Season in NAFO Subareas 3 and 4:
  - June to November

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Acknowledgements

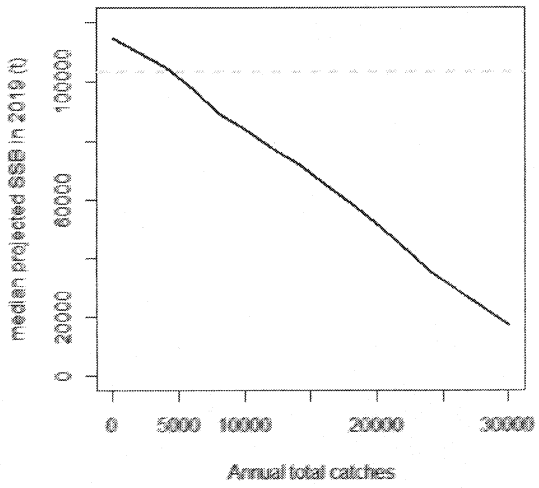
- DFO Science – Quebec Region, particularly
  - Martin Castonguay
  - Thomas Doniol-Valcroze
  - Elizabeth Van Beveren

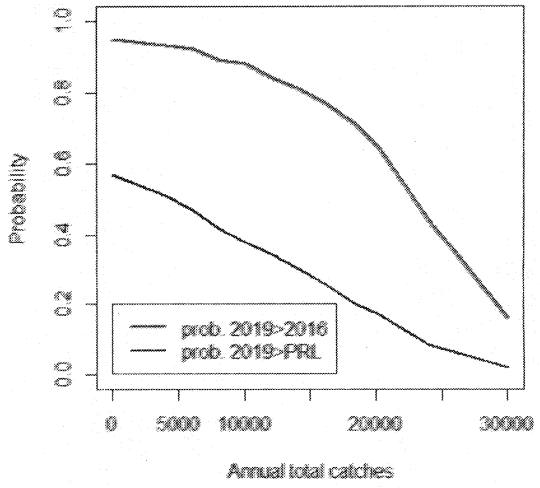
N.B. Information presented here is preliminary. The corresponding Science Advisory Report is not yet available.

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Projections performed with the censored SCAA model to estimate SSB in 2019 and probability of exceeding management targets. Total catches (declared + undeclared) are fixed under different scenarios for 2017 and 2018. Natural mortality at age is the same as was used in hindcast modelling. Weight-at-age and proportions of mature fish are equal to the average of the last three years. Recruitment is drawn from a log-normal distribution around the mean value determined by the stock-recruitment relationship and the environmental factor (itself taken from a normal distribution with the mean and standard deviation of the entire time series).

declared + undeclared catches (t)		2017		2018		2019		
2017	2018	SSB (t)	Exp. Rate	SSB (t)	Exp. Rate	SSB (t)	prob. >2016	prob. >LRP
0	0	48,283	0.00	77,164	0.00	113,886	0.95	0.56
4,000	4,000	48,283	0.08	72,175	0.06	103,378	0.93	0.50
6,000	6,000	48,283	0.13	68,503	0.09	96,927	0.92	0.46
8,000	8,000	48,283	0.17	64,910	0.12	90,889	0.89	0.42
10,000	10,000	48,283	0.21	62,762	0.16	85,686	0.87	0.40
12,000	12,000	48,283	0.25	59,466	0.21	77,143	0.84	0.34
14,000	14,000	48,283	0.29	56,858	0.24	72,189	0.81	0.30
16,000	16,000	48,283	0.33	54,018	0.29	66,158	0.77	0.26
18,000	18,000	48,283	0.38	50,928	0.36	57,113	0.70	0.20
20,000	20,000	48,283	0.42	47,502	0.42	51,348	0.64	0.17
24,000	24,000	48,283	0.50	41,704	0.59	35,728	0.44	0.09
30,000	30,000	48,283	0.62	33,053	0.90	17,199	0.16	0.02





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s.21(1)(a)
s.21(1)(b)

Marentette, Julie

From: Doniol-Valcroze, Thomas
Sent: March-22-17 1:37 PM
To: Marentette, Julie
Cc: Krohn, Martha
Subject: RE: Projection Tables?
Attachments: projections.docx

Julie,

As per our conversation. Is this better?

Thomas

De : Marentette, Julie
Envoyé : 21 mars 2017 11:44
À : Doniol-Valcroze, Thomas
Cc : Krohn, Martha
Objet : RE: Projection Tables?

Hi Thomas,

Just had the briefing with the DG and we discussed your draft table. I know you are still working on it but we have the following:

1. Can you please expand the table downward, such that the "prob. > 2016" column for 2019 includes 0.50 or a risk-neutral scenario? The PRL column reaches 0.5 quite quickly.

Let me know if this makes sense.

Thanks!!

Best regards,

Julie Marentette, Ph.D.

Science Advisor, Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Julie.Marentette@dfo-mpo.gc.ca /Tel: 613-943-2098

Conseillère scientifique, Sciences des populations halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Julie.Marentette@dfo-mpo.gc.ca /Tél: 613-943-2098

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From: Doniol-Valcroze, Thomas
Sent: March-21-17 9:54 AM
To: Marentette, Julie
Subject: RE: Projection Tables?

Hi Julie,

Here is a first version of the table with the projections.

Hope this helps.
Thomas

De : Marentette, Julie
Envoyé : 20 mars 2017 15:37
À : Doniol-Valcroze, Thomas
Objet : Projection Tables?

Hi Thomas,

I'll be briefing the Director General tomorrow at 10 am on the Mackerel assessment and we were thinking it might be good to be able to provide her with the projection tables for the SAR – do you think you might have those available by tomorrow morning?

I know things are very busy on your end and that may not be possible. Thanks, and I'm sorry to bring more questions to your attention!

Best regards,

Julie Marentette, Ph.D.

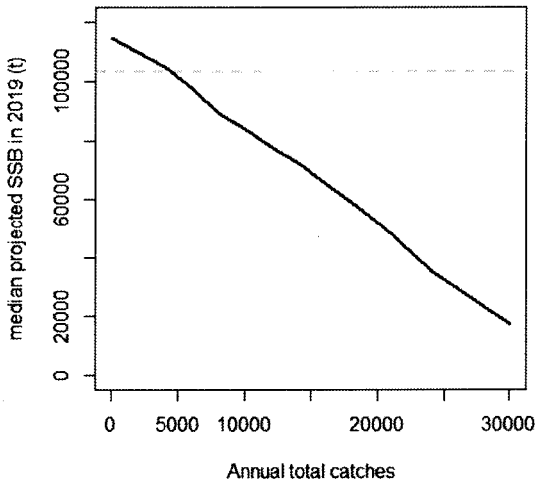
Science Advisor, Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Julie.Marentette@dfo-mpo.gc.ca /Tel: 613-943-2098

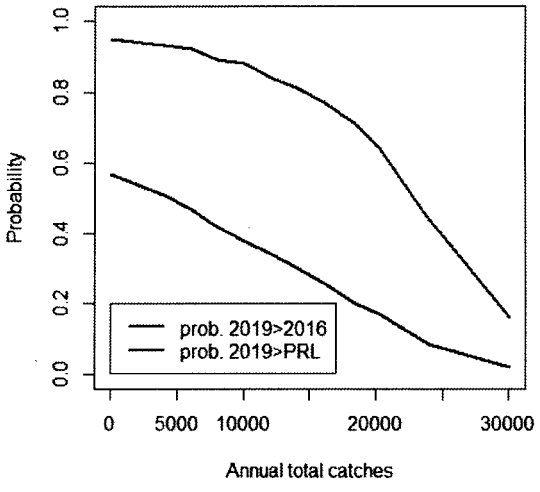
Conseillère scientifique, Sciences des populations halieutiques
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16,000	16,000	48,283	0.33	54,018	0.29	66,158	0.77	0.26
18,000	18,000	48,283	0.38	50,928	0.36	57,113	0.70	0.20
20,000	20,000	48,283	0.42	47,502	0.42	51,348	0.64	0.17
24,000	24,000	48,283	0.50	41,704	0.59	35,728	0.44	0.09
30,000	30,000	48,283	0.62	33,053	0.90	17,199	0.16	0.02





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s.19(1)

Cormier, Mélanie

De: Lester, Brian
Envoyé: 22 mars 2017 10:29
À: [redacted]
Cc: Rivierre, Antoine; Mallet, Pierre; Hardy, Magalie; Sylvie
Objet: RE: MACKEREL

Hello [redacted] I hope that you will be able to make it to the meeting next week in Halifax.

It would appreciate it if you could raise these issues in the meeting so that we can have a full discussion with the other members of AMAC. If you are not going to be able to make the meeting please let me know and I will raise these issues on behalf of your group.

Thank you for the email.

Brian

From: [redacted]
Sent: 2017–March-22 9:08 AM
To: Lester, Brian
Cc: Rivierre, Antoine; Mallet, Pierre; Hardy, Magalie; Sylvie
Subject: MACKEREL

On behalf of the TRANSFORMATEUR du SUD de la GASPÉSIE we are asking that DFO make mandatory the rules that are in place first that the hailin system be mandatory second is that we all have the same model of logbook in the GULF thirdly is that everyone that uses bait for there fishery must have proof of purchase and findly that there is a daily limit of 15 mackerel to all noncommercial
fisherman

thank you

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Cormier, Mélanie

De: Richard, Josée
Envoyé: 22 mars 2017 12:47
À: Rivierre, Antoine; Morin, Mathieu
Cc: Rowsell, Andrew; Lemelin, Dario
Objet: Re: Représentants de l'industrie_ Comité consultatif Maquereau

Je pense qu'il pourrait en avoir un ou deux.

De : Rivierre, Antoine
Envoyé : Wednesday, March 22, 2017 11:59 AM
À : Morin, Mathieu; Richard, Josée
Cc : Rowsell, Andrew; Lemelin, Dario
Objet : Représentants de l'industrie_ Comité consultatif Maquereau

Bonjour.
Savez-vous si des représentants de l'industrie de votre région participeront au prochain comité consultatif sur le maquereau ?
Pour rappel, ce comité se tiendra à Halifax le 30 mars prochain.

Merci

Antoine

Antoine Rivierre

Conseiller principal p. i.,
Espèces pélagiques, mammifères marins
Gestion de la ressource et des affaires autochtones / Pêches et Océans Canada / Gouvernement du Canada
Antoine.rivierre@dfo-mpo.gc.ca / Tél. : 418.640.2636

Senior Advisor a. i.,
Pelagic species, Marine Mammals
Resource Management and Aboriginal Affairs / Fisheries and Oceans Canada / Government of Canada
Antoine.rivierre@dfo-mpo.gc.ca / Tél. : 418.640.2636

Government of Canada Gouvernement du Canada

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Marentette, Julie

From: Marentette, Julie
Sent: March-23-17 5:06 PM
To: Doniol-Valcroze, Thomas
Subject: RE: Mackerel Q - impact of early egg survey numbers on LRP?

Thanks for the clarification, it is reassuring that when the highest index numbers are removed, the LRP barely responds (96 vs 103 k, < 7% change) and certainly does not take the stock out of the critical zone.

It is also good to clarify that the uncertainty around the early data points is just that, not conclusive enough to merit exclusion and that potential reasons as to why the data are so different (method problems, etc.) are not firm.

I appreciate your responding so quickly!

From: Doniol-Valcroze, Thomas
Sent: March 23, 2017 13:46
To: Marentette, Julie
Subject: RE: Mackerel Q - impact of early egg survey numbers on LRP?

Julie,

It's a fair question. I ran the model without the three values of the egg index that were above 1 million tons that the model has a hard time fitting to (i.e. setting them to missing values) and the LRP came out at 96,000 tons instead of 103,000. So not a huge change, plus there was no significant change in estimated stock trajectory and final SSB numbers.

Problem is, we have no good reason to exclude those points. We know some of these variations are not biologically plausible but it could be other data points that are in error. That's precisely why we tell the model that there is an observation error and we let it find the most likely trajectory within the constraints of population dynamics.

Thomas

De : Marentette, Julie
Envoyé : 23 mars 2017 08:42
À : Doniol-Valcroze, Thomas
Objet : Mackerel Q - impact of early egg survey numbers on LRP?

Hi Thomas,

Quick question - I know there is some uncertainty surrounding the egg survey data points from early on in the time series.

If those values are unrealistically high and/or variable, how much of an effect does this have on the LRP? Could this be a point of challenge for the model and the reference points at AMAC?

I recall the effects of including/excluding the early egg series data were explored a bit in January (at least as a new/old model comparison), but I'm not sure I clearly understood how that was resolved, and in any case a number of model assumptions were altered following the peer review so I'm not sure if the patterns that were discussed would even be comparable to the current framework model.

Thanks,

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Julie

No information has been removed or severed from this page

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Marentette, Julie

From: Marentette, Julie
Sent: March-23-17 8:38 AM
To: Landry, Jean; Krohn, Martha
Subject: RE: Updated Mackerel Package for ADM (with new projections table)
Attachments: Atlantic Mackerel Assessment Briefing Deck 170323.ppt; Atlantic Mackerel 101 draft March 23 2017.docx; Atlantic Mackerel 2017-03-23.docx; projections.docx

Hi Jean and Martha,

Please find attached the revised draft documents with the changes highlighted in blue (docs) or using blue text (ppt, slide 14). I've also re-included the projections from Thomas.

EFM staff that have seen the short table that only went to 20,000 t: According to Thomas, Brian Lester, Jenness Cawthray, Antoine Riviere, the regional FM officer from MAR (Krista I believe?) and another regional FM person whose name I did not fully hear, were on the call the region had with FM.

Thomas said the bullets and a revised briefing note were with Yves since last Thursday and he is not aware of anything beyond that. They should be expected to be approved this week, as AMAC is next week.

I will be leaving for Moncton shortly but should have email contact again by mid afternoon, barring weather delays.

Julie

From: Landry, Jean
Sent: March 22, 2017 20:24
To: Marentette, Julie; Krohn, Martha
Subject: TR: Updated Mackerel Package for ADM (with new projections table)

Many thanks Julie for this,

- I just gave a quick look at a couple of documents (fish wall and the slide 14 of the deck). I have highlighted few strings in yellow. In particular, I have issues with one statement that is used in most documents: "**the precise proportion of total catch that is estimated to be commercial will be determined in consultation with Science, FM and industry at AMAC (March 30, 2017)**".

If we know that total catches can range from 150-200% of declared catches then the discussion at AMAC will not be about ``the precise proportion of total catch that is estimated to be commercial''. AMAC should discuss about potential commercial TAC, taking into account the fact that total catches may be higher because of unreported catches. Can we modify this statement and also make a last review of all documents before I share with Arran (and before we share with Trevor and EFM at HQ)?

Any idea of whom in EFM has seen the shorter decision table yet?
Should we expect final bullets (RDS approved) of the SAR soon?

Martha: Available to discuss tomorrow if necessary. Assuming Julie will be on travel

Jean

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Jean Landry
Director , Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Jean.Landry@dfo-mpo.gc.ca / Tel: 613-993-0029

Directeur, Sciences halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Jean.Landry@dfo-mpo.gc.ca / Tél. : 613-993-0029

Government of Canada / Gouvernement du Canada

Canada

De : Marentette, Julie
Envoyé : 22 mars 2017 14:18
À : Krohn, Martha <Martha.Krohn@dfo-mpo.gc.ca>; Landry, Jean <Jean.Landry@dfo-mpo.gc.ca>
Objet : Updated Mackerel Package for ADM (with new projections table)

Hello Martha and Jean,

Please find attached the **new projections table including the risk-neutral scenario for SSB growth**, and the updated deck, 101 and wall that contains the new information. Projections are described on slide 14 of the deck, the Key Issues section of the fish wall and on page 4 of the 101.

FM has seen a shorter version of this table. Note that Total Catches column title has now been replaced by Declared + Undeclared.

Best regards,

Julie Marentette, Ph.D.
Science Advisor, Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Julie.Marentette@dfo-mpo.gc.ca /Tel: 613-943-2098
Conseillère scientifique, Sciences des populations halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Julie.Marentette@dfo-mpo.gc.ca /Tél: 613-943-2098

From: Krohn, Martha
Sent: March-22-17 1:41 PM
To: Landry, Jean
Cc: Marentette, Julie
Subject: RE: Mackerel Package for ADM (no new table)

Hi Jean,
Julie received the new table with the risk neutral projection on it, so you may want to wait before forwarding.
Thanks,
Martha

From: Krohn, Martha
Sent: March-22-17 11:29 AM
To: Landry, Jean
Cc: Marentette, Julie
Subject: FW: Mackerel Package for ADM (no new table)

Hi Jean,

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Here is the updated mackerel package. (Not expecting the declared catch column)
Thanks Julie!
Martha

From: Marentette, Julie
Sent: March-22-17 11:26 AM
To: Krohn, Martha
Subject: Mackerel Package for ADM (no new table)

Hi Martha,

If we decide to send up as is, I've included details about the projections in the slide deck and 101 as well as an independent document. (for your interest, slide 14 of deck, paragraph on page 4 of the 101)

No risk neutral approach for stock growth by 2019 has yet been received from regional Science. So the information here is what we had as of yesterday.

Best regards,

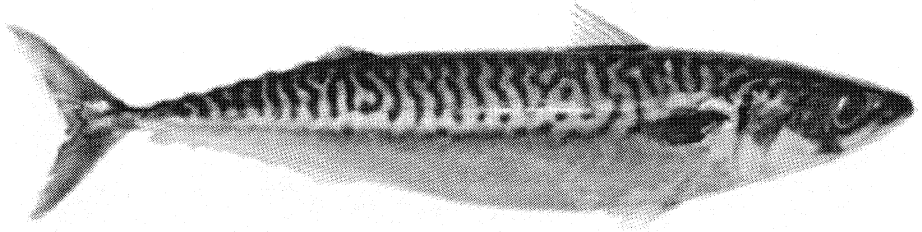
Julie Marentette, Ph.D.
Science Advisor, Fish Population Science
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Julie.Marentette@dfo-mpo.gc.ca /Tel: 613-943-2098
Conseillère scientifique, Sciences des populations halieutiques
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Fisheries and Oceans Canada | Pêches et Océans Canada

Briefing Update

Assessment of Atlantic Mackerel (NAFO Subareas 3-4)



March 8-9, 2017, Institut Maurice-Lamontagne, Mont-Joli, QC

Julie Marentette

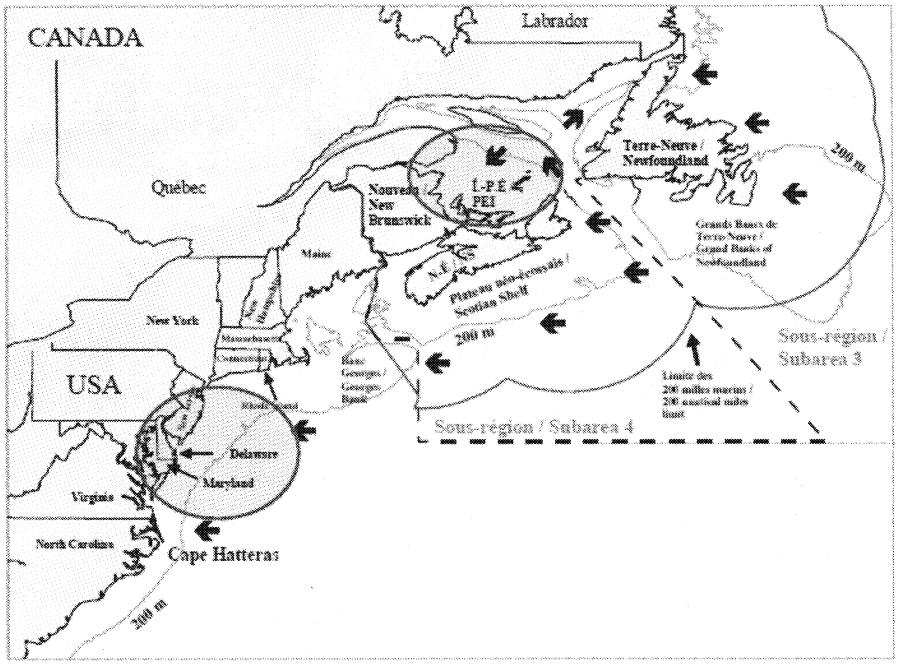
Last updated March 23, 2017

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Background

- Schooling, migratory, pelagic fish
- Used as bait for lobster/crab
- Spawn in Gulf of St. Lawrence, overwinter on continental shelf
- 50% mature at 1.4 years (26 cm)
- Fully mature and fully recruited to fishery by ~ age 3



Castonguay, Doniol-Valcroze et al. in prep

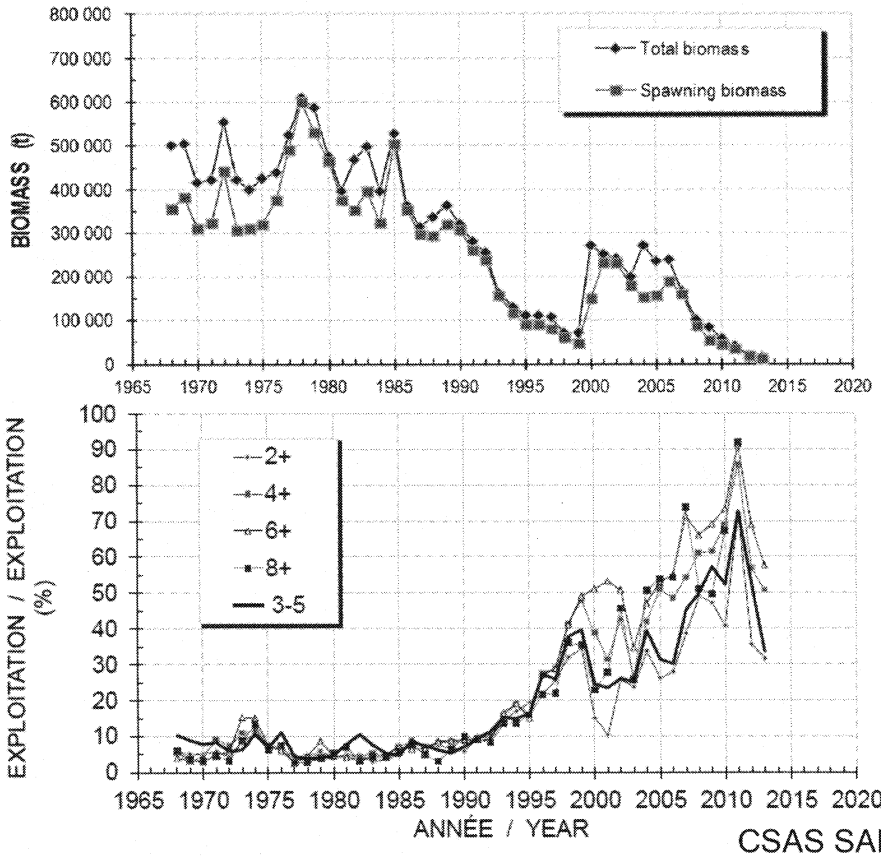
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2014 Assessment – Where were we?

- Commercial landings and biomass ↓, fishing mortality ↑
- Egg survey ↓, contracting age structure
- Modelled stock abundance at lowest historic level in 2013
- **Stock status: Critical**, because SSB was below three candidate LRPs
- Based on Sequential Population Analysis (SPA) model and declared catches, SAR recommended TAC of 800 t
- Model predicted unrealistically low biomass
- TAC ultimately set at 8000 t



CSAS SAR 2014/030

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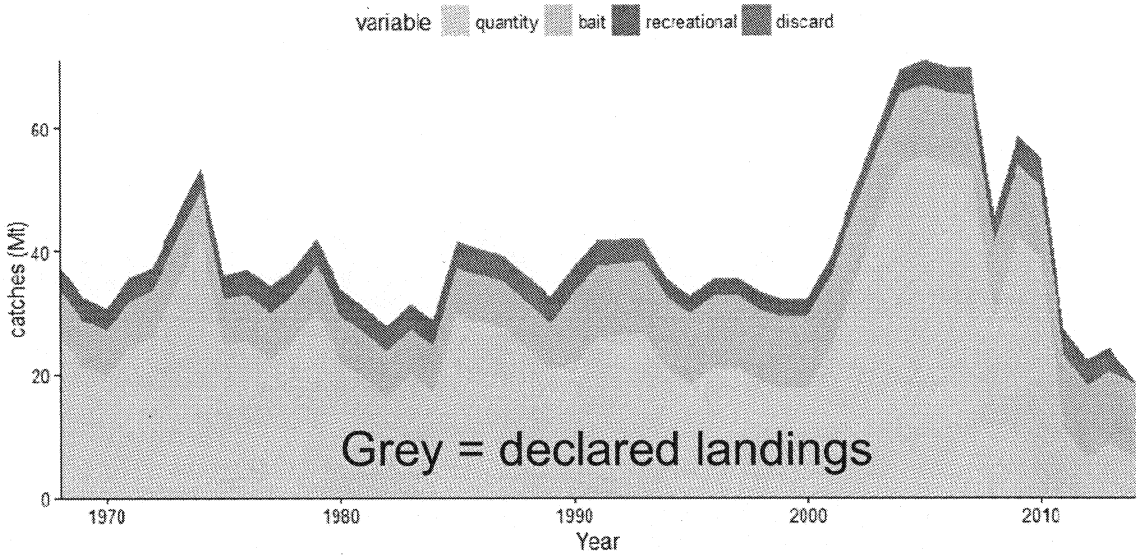
Uncertainty in the Mackerel Fishery

- Only commercial landings are declared
- Undeclared Mackerel caught as:
  - Bait for personal use
  - Sold fisher-to-fisher
  - Recreational use
  - Discard mortality, unfilled logbooks
- Unknown proportion of US landings are Northern (Canadian) fish

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2016: Estimating Undeclared Catch

- 2016 internet survey of recreational/bait use
- Literature review of region-specific bait needs
- Total catches can range from **150-200%** of declared catches



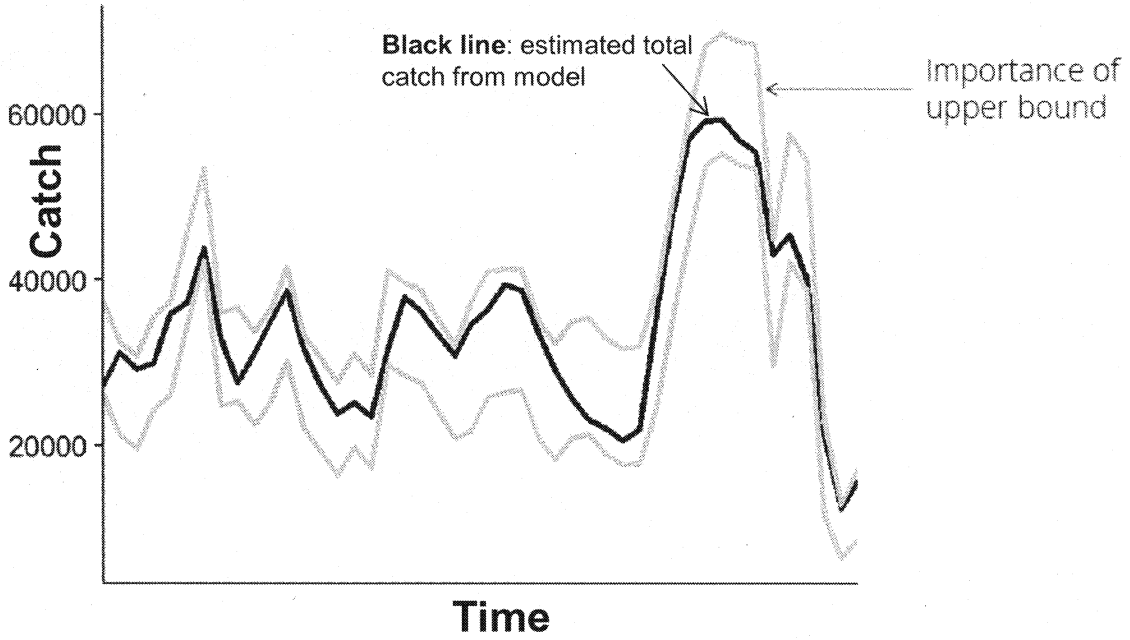
Van Beveren, Doniol-Valcroze et al. in prep

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Document Released Under the Access to Information Act / Document divulgué en vertu de la Loi sur l'accès à l'information.

January 2017 – A New Framework

- A **censored statistical catch-at-age (SCA) model** was developed to accommodate uncertainty on catch
- Declared catch = lower limit
- Possible total catch = upper limit
- **Inputs**: limits, abundance index from egg survey, stock-recruit relationship, M, growth
- **Outputs**: Estimated 'actual' catch, total/spawning biomass, F, recruitment
- Results broadly consistent with 2014 assessment in pointing to recent declines



Van Beveren, Doniol-Valcroze et al. in prep

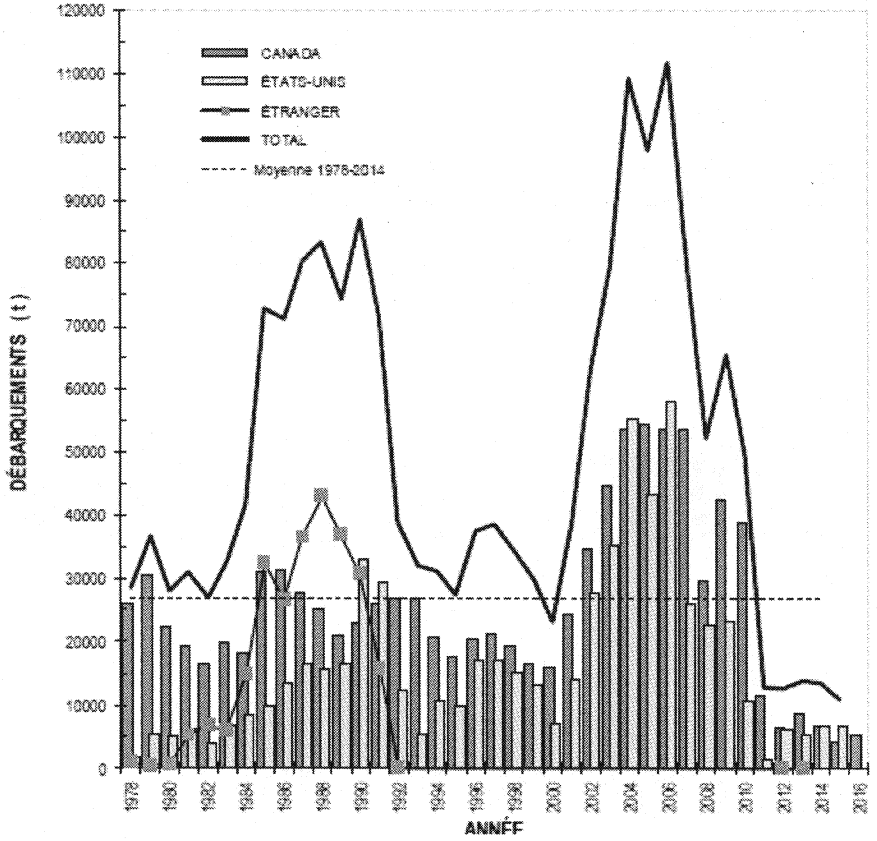
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New Data – Commercial Catch 2013-16

- Declared catches continue to be low
- October 2016: Fishery closed as TAC of 8,000 t reached early
  - Most catches appear to be from NL (division 3K), instead of 4R
  - Regional data from 2016 still preliminary



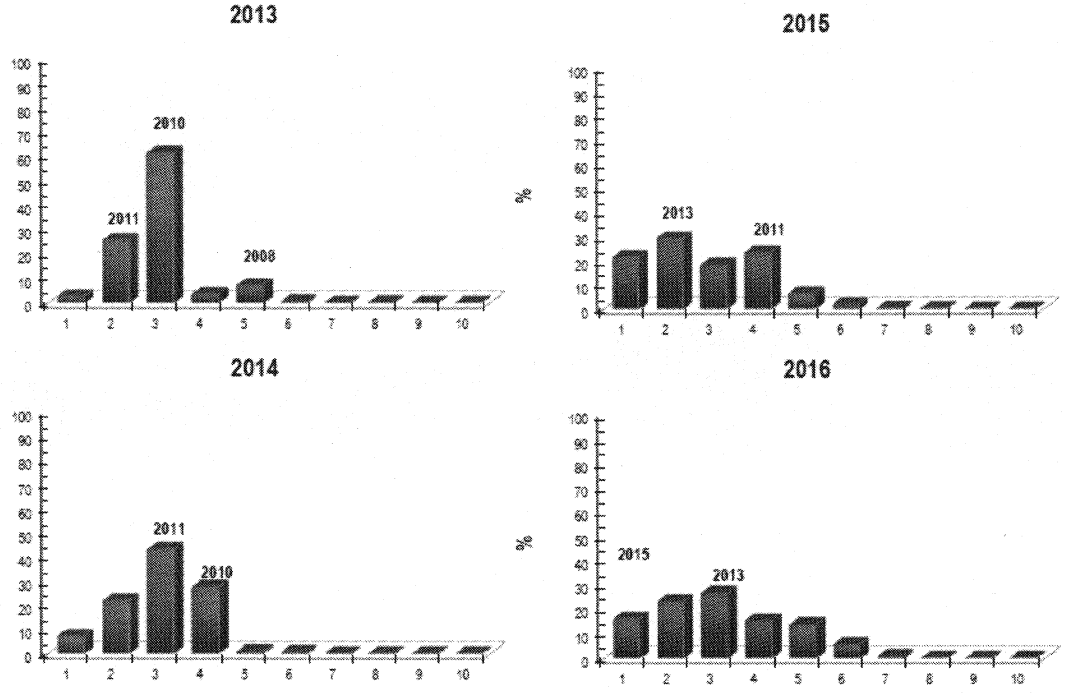
Doniol-Valcroze et al. in prep

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New Data – Age Structure 2013-16



Age structure has been expanding slightly since 2013.

Doniol-Valcroze et al. in prep

Canada

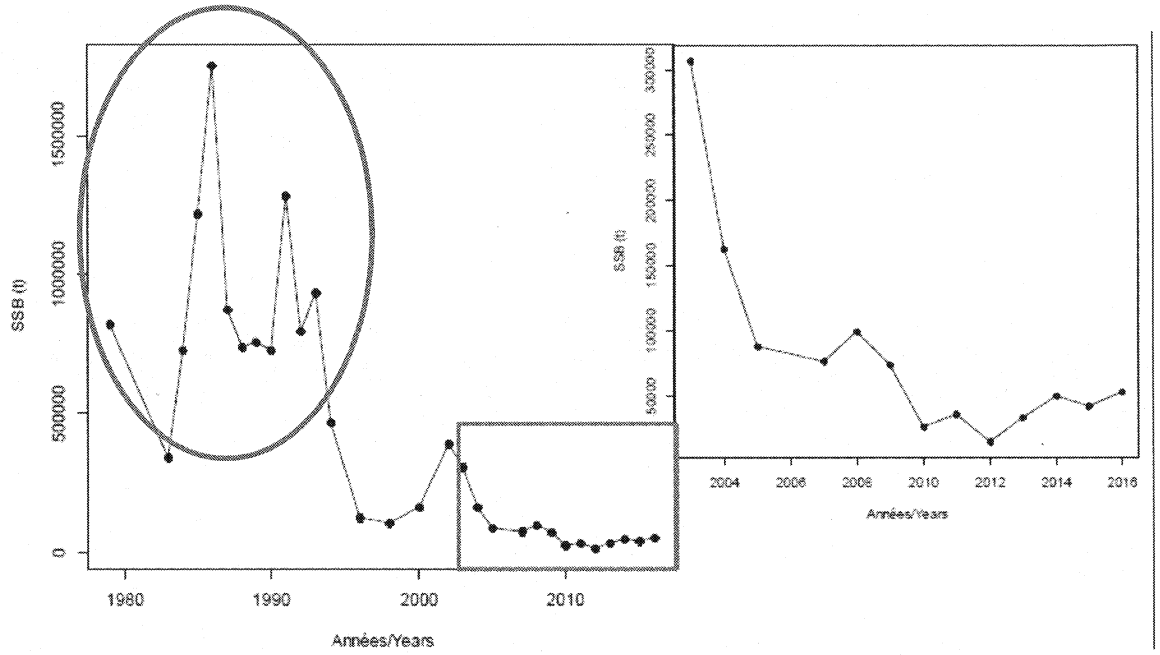
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New Data – Abundance Index from Egg Survey

Using the egg data alone, mackerel reached historically low spawning stock biomass (SSB) in 2012 and has slightly increased since.

SSB early in the time series (green circle) may be affected by issues with egg sampling methods.



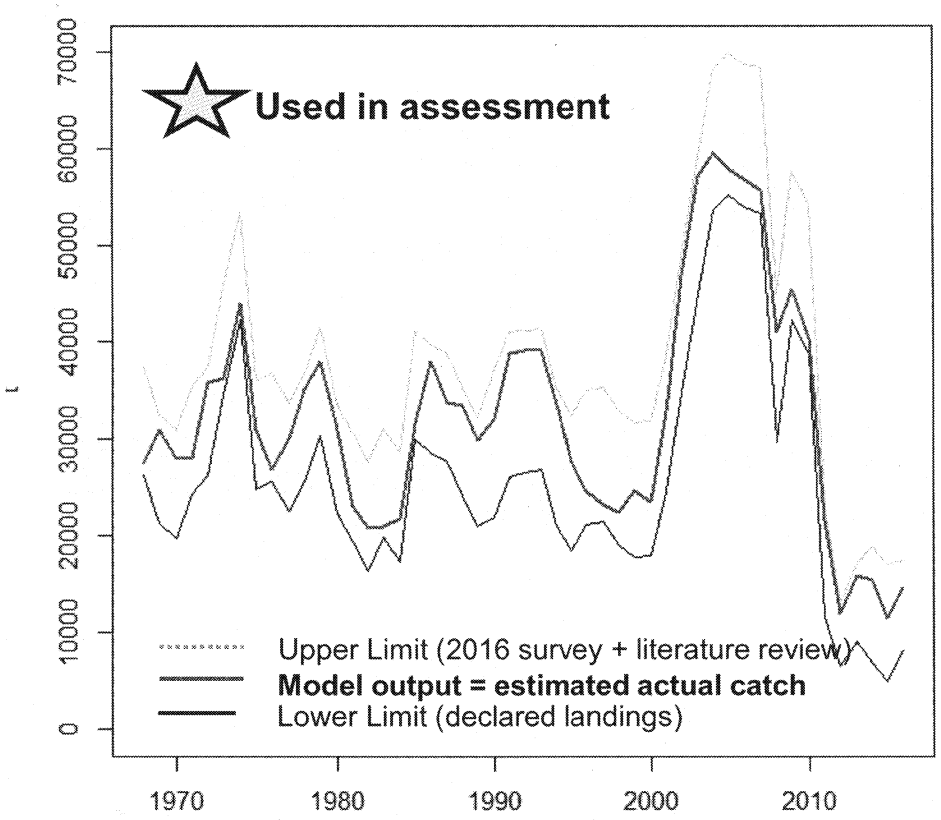
Doniol-Valcroze et al. in prep

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March 2017 – Censored Model and New Data



The censored SCA model indicates **recent declines in catches (since ~ 2005) are robust to changes in the model upper limit**, although total catch over the time series will increase as the upper limit increases. (The model will use some of the extra space you give it.)

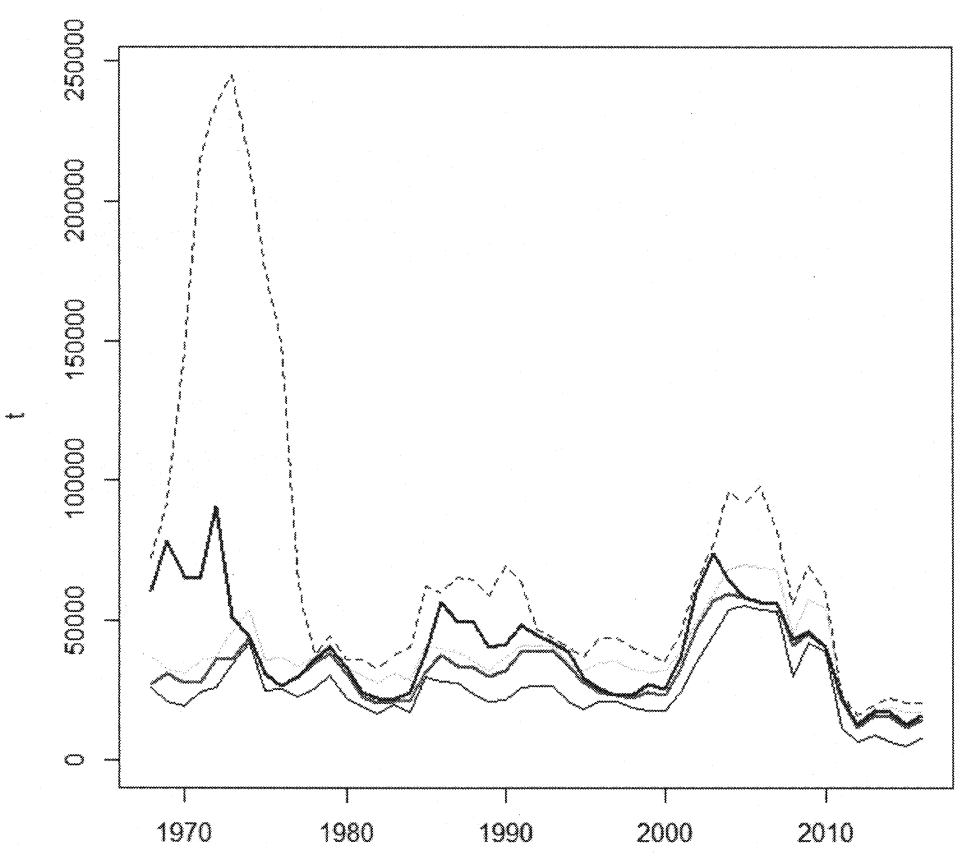
Doniol-Valcroze et al. in prep

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March 2017 – Censored Model and New Data



Upper Limit (50% US/foreign catch)
Model output = estimated actual catch

Upper Limit (2016 survey + literature review)
Model output = estimated actual catch
Lower Limit (declared landings)

Doniol-Valcroze et al. in prep

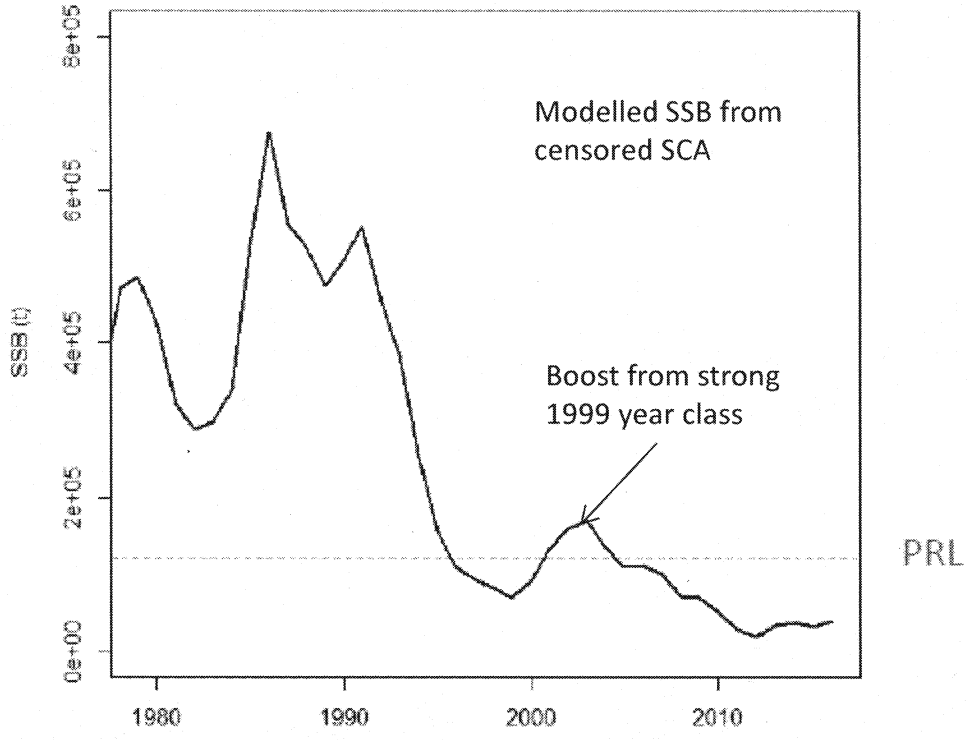
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March 2017 - Updated Stock Status

SSB (2016) = 40,000 t; F_{year} decreasing since 2011, but **stock status remains critical.**



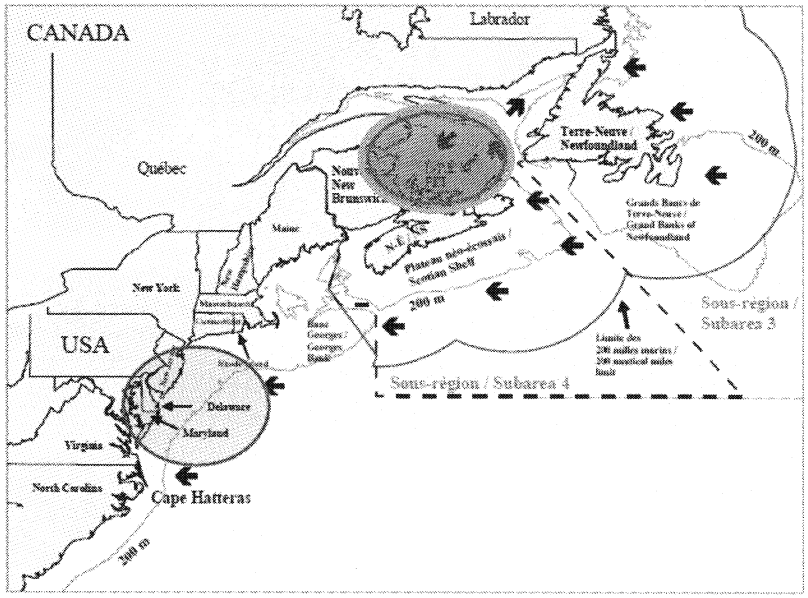
Doniol-Valcroze et al. in prep

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Transboundary Concerns

- Northern + Southern contingents
- Genetically distinct from European stocks
- US and Canadian stocks do not (yet) appear to be genetically distinguished
  - more research upcoming
- Preliminary otolith microchemistry on age 3 fish in US trawls show they were spawned in Gulf of St. Lawrence, not Gulf of Maine (D. Secor, U. Maryland)
  - More samples being analyzed in advance of NOAA assessment



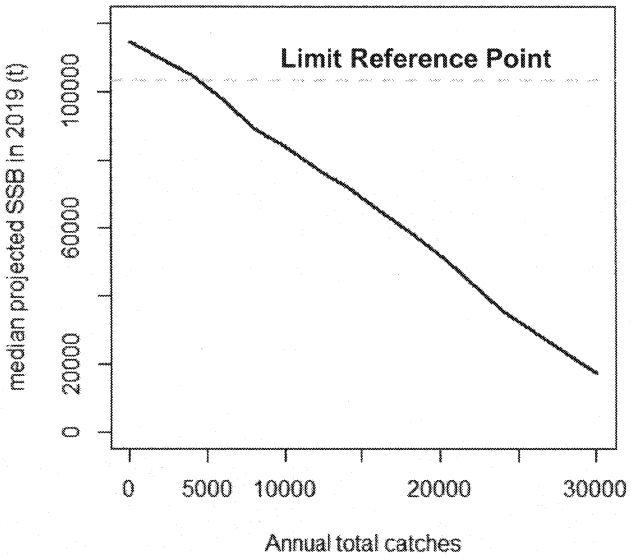
Doniol-Valcroze et al. in prep

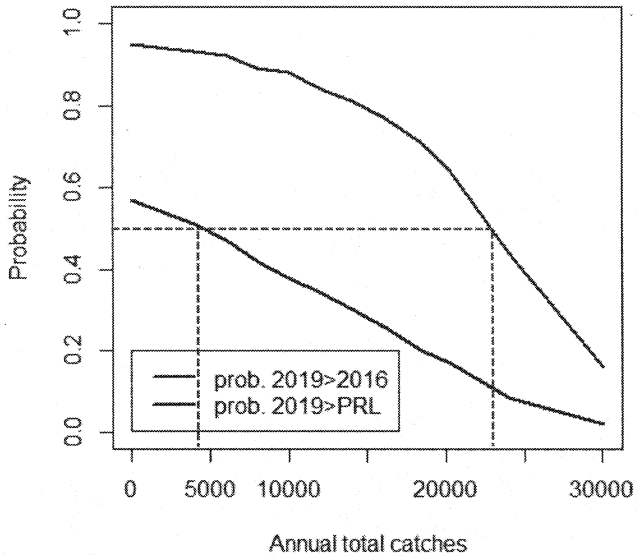
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Looking forward: Projections



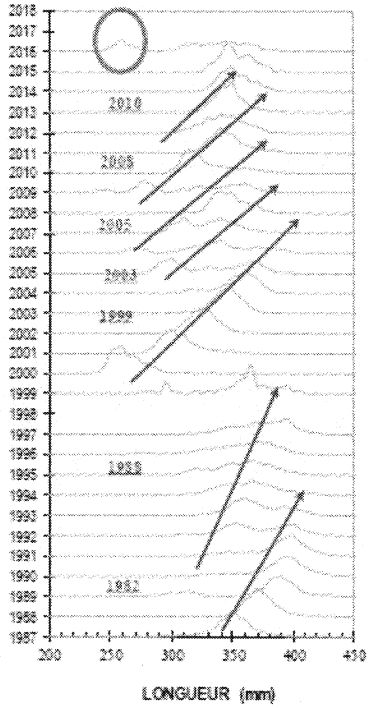


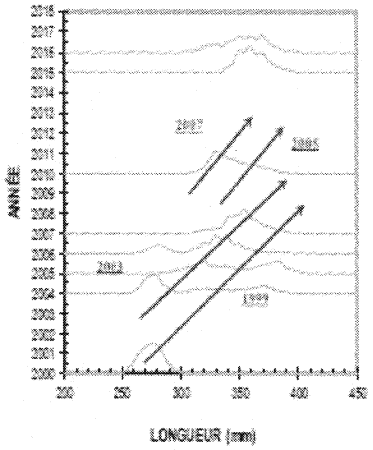
- Stock projected to have at least 50% chance of recovery over LRP by 2019 if total annual catches are no more than 4,000 t, and 50% chance of increase in SSB if total catches are no more than ~ 23,000 t, in 2017-2018
- [redacted]

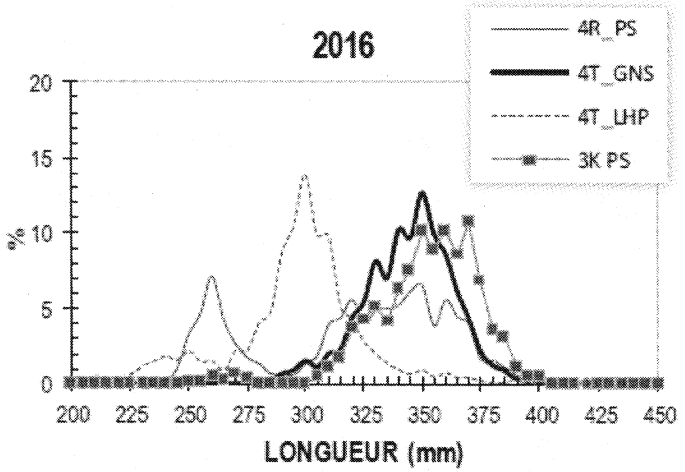
Doniol-Valcroze et al. in prep

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Looking forward: 2015 Year Class?







Industry has reported **widespread observations of small mackerel**. Small fish are more likely to be seen in division 4R than in 3KL (4R is closer to spawning grounds). However, because the fishery closed early in 2016, most of the commercial catch data ended up coming from in 3KL, so the overall data signature of the young fish is weak. 2015 fish will start spawning in 2017 – egg survey.

Doniol-Valcroze et al. in prep

Canada

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Looking forward: No Early Triggers for Stock Assessment

- Considered **not logistically feasible** for this fishery
- Annual Gulf egg survey conducted in spring/summer
- Commercial fishery samples (age/sex/weight/fecundity) not available until December of each year
  - These contribute data to convert egg survey to a stock abundance index
- With processing time, the window of opportunity to arrange a full stock assessment is too short (< 1-2 months)

Doniol-Valcroze et al. in prep

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Industry Views

- State that stock is cyclical and more fish are in the water than what Science describes
- Science position:
  - 2017 assessment more credible, currently estimates 40,000 t SSB, whereas 2014 assessment estimated 3,949 t SSB (10-fold difference)
  - Overall trends in SSB are robust to moving the upper limit
- Report large amounts of 'pencil' (young) Mackerel in multiple regions
  - Expected to affect egg survey and appear in commercial catches in 2017

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Research on Mackerel

- Recent Research
  - 2015-2016 field surveys by DFO showed no new spawning grounds
  - Young of Year unexpectedly found in NAFO division 3K sent by DFO Science for genetic analyses
- Upcoming Research
  - Genomic studies to differentiate stocks (US vs. Canada vs. Europe)
  - Otolith microchemistry to target spawning origin (US & Canada)
  - Quantifying habitat for eggs and larvae (temperature, plankton)

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Next Steps

- SAR draft expected by March 24th
  - Will contain projections table for Fisheries Management
- AMAC (Advisory Council) – March 30th in Halifax
  - TAC decision to follow (end of April)
- Mackerel Season in NAFO Subareas 3 and 4:
  - June to November

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Acknowledgements

- DFO Science – Quebec Region, particularly
  - Martin Castonguay
  - Thomas Doniol-Valcroze
  - Elizabeth Van Beveren

N.B. Information presented here is preliminary. The corresponding Science Advisory Report is not yet available.

Canada

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Atlantic Mackerel (*Scomber scombrus*)



Biology

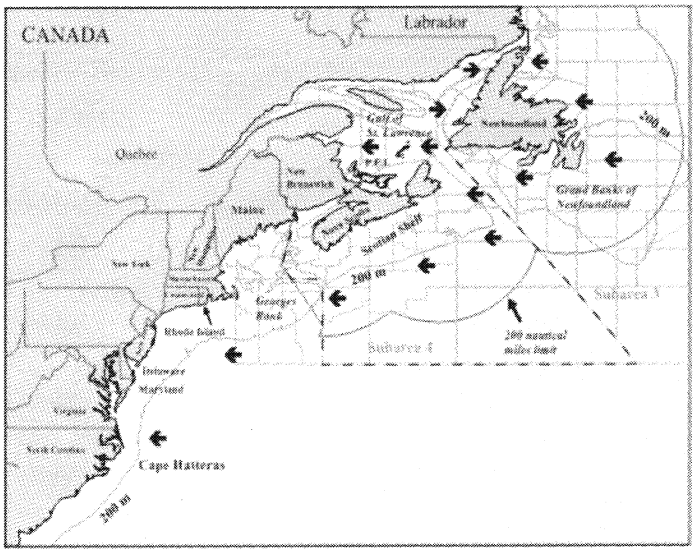
The Atlantic Mackerel is a schooling and migratory species distributed in waters north of Newfoundland down to waters off of North Carolina in the south.

Mackerel are pelagic (inhabit the upper water column), occupying depths of 70-200 m on the continental shelf in the winter.

Mackerel overwinter on the continental shelf and come inshore and to the Gulf of St. Lawrence in the spring and summer to feed and to spawn. The only important spawning area known in Canada is in the southern Gulf of St. Lawrence (NAFO Division 4T). There is also another spawning area in the US on the mid-Atlantic Bight (between Cape Cod and Cape Hatteras.

Atlantic mackerel are 100% sexually mature at ~ 30 cm, or around age 3.

Distribution of Northwest Atlantic Mackerel



Canadian stock area (NAFO Subareas 3 & 4):
Gulf of Saint Lawrence, surrounding Newfoundland, Bay of Fundy, and Scotian shelf.

American stock area (NAFO Subareas 5 & 6):
Georges Bank, Gulf of Maine, mid-Atlantic Bight south to North Carolina

There are two contingents, one spawns in Canadian waters (in the Gulf of St. Lawrence), and one spawns in US waters (on the northeast US coastal shelf). It remains to be determined if the two contingents form distinct stocks. It is thought that American mackerel does not migrate to Canadian waters but Canadian mackerel does migrate to US waters in the winter and is targeted by the US

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fishery. As a result, stock assessment in Canada concerns subareas 3-4 only while stock assessment in the US concerns the entire range, i.e., subareas 3 to 6.

Stock status in brief



The most recent full stock assessment was performed in March 2017 (SAR pending), with another planned for 2019.

Based on the 2017 assessment, Atlantic Mackerel spawning stock biomass (SSB) has been decreasing steadily since the early 2000's, part of a longer term decline starting around 1990. The SSB is currently estimated at 40,000 t, below the Limit Reference Point ('PRL,' left) of 103,000 t (40% Bmsy) and therefore in the Critical Zone.

Age-structure has contracted in recent years; the 6 to 12 year-old age-classes and above were absent from the population. Collapsed age structure is an indication of over-exploitation. A slight expansion of the age structure has been observed since 2013 with the presence of proportionately more 4 to 6 year old individuals in 2016.

Fishery

The fishery is composed of large and small purse seiners, tuck seines (modified bar seines) and other fixed gear (traps, gillnets, lines and weirs). Large seiners have been allocated 40% of the TAC with small seiners and fixed gear allocated 60% of the TAC in recent years. Annual landed value in Canada is ~$5 million.

Historical landings for the whole stock, including those in US waters, were much higher than in recent years, reaching as high as 250 000 tonnes (t; 1970—1976). Past TACs were also high, having been set at 200 000 t between 1987 and 2000. Total American and Canadian landings are now a small fraction of those levels; for example, total recorded catches between the two countries were only 12 681 t in 2013.

Since 2000, TAC levels have been incrementally reduced. In 2012 and 2013 the TAC was 36 000 t, then reduced to 10 000 t in 2014 and again to 8 000 t in 2015-2016.

Reported Canadian landings between 2012—2015 have ranged from 4.1 to 7.4 thousand t, well below the TAC, with landings in 2015 being the lowest landings on record. However, an increase in landings was observed in 2016. The fishery was in fact closed in October 2016 as the TAC of 8 000 t was achieved (see table below).

*Table: Canadian Mackerel TAC and landings from 2000 to 2016 ('000s tonnes; * preliminary)*

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016*
TAC	100	75	75	75	75	75	75	75	75	75	40	40	36	36	10	8	8
Catch	16.0	24.4	34.7	44.7	53.8	54.6	53.6	53.0	29.7	42.2	38.8	11.4	6.5	7.4	6.4	4.1	8

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% TAC caught	16	33	46	60	72	73	71	71	40	56	97	43	18	20	64	51	100

Removals associated with the bait and recreational fisheries are not quantified and are known to be significant. Lack of information on these sources of catch is seen as one of the key uncertainties in assessing and managing the stock.

The minimum legal catch size is 26.3 cm and discarding of under-sized fish has been identified by Science as a concern. The extent and impact of these discards on the stock is hard to quantify.

The MSC certification of the Bay of Fundy, Scotian Shelf and Southern Gulf of St. Lawrence lobster fisheries requires a strategy to ensure that the mackerel bait fishery does not hinder the recovery and rebuilding of the Canadian mackerel stock.

Monitoring and assessment

Annual egg surveys in the southern Gulf of St. Lawrence are used for generating the abundance index. The abundance index from the egg survey, along with catch-at-age data from commercial samples, is used in the assessment model.

At the request of industry, the Province of Newfoundland committed funding towards a new egg survey in Area 3K (northeast coast of NL) in 2015 and 2016 to determine if there may be another significant spawning area for mackerel on the Canadian east coast. However, this study and a previous attempt to find additional significant spawning areas in 2009 did not show any sign of spawning activity and no new spawning areas have been discovered.

An internet survey of recreational and bait use of Mackerel by fishermen was conducted in late 2016 which, when paired with a literature review to estimate past recreational and bait use, generated an estimate of the magnitude of undeclared Mackerel landings in the Atlantic region. In January 2017, a new framework assessment model (censored statistical catch-at-age or SCA model) was developed to estimate total catch, using the internet survey and literature review to generate an upper limit on total catches and using declared landings as the lower limit. It is possible that the internet survey and literature review still underestimate total catch.

Science advice on stock status and removal rates

Advice on stock status

Although both the 2014 and newly proposed 2017 assessment models likely underestimate absolute stock size (because total catch is underestimated), there is high certainty in the declining stock trend. This is true even though the 2017 assessment model predicts a SSB of 40,000 t (a quantity 10-fold higher than in 2014, reflecting the increased credibility of the model). While increasing the upper limit of the censored SCA model (to reflect increased uncertainty) does result in overall increase in catches, the pattern of stock decline is robust to these changes.

The estimated SSB for the whole NW Atlantic Mackerel population including the American component is highly correlated to the SSB assessed from the Canadian assessment, indicating that the Canadian assessment (calibrated by egg densities in the Gulf) may be a good index of the SSB trend of the whole population.

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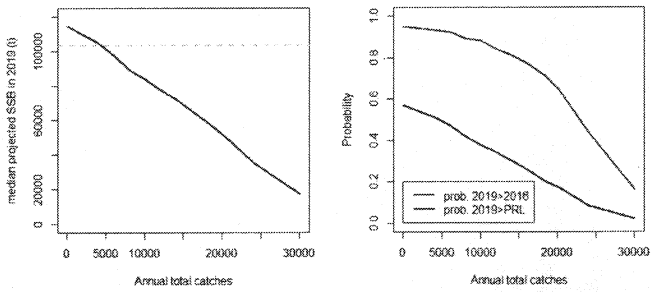
In 2014, age-structure was reported as contracting - the 6 to 12 year-old age-classes and above had been lost from the population. In 2017, the age-structure has broadened slightly with more 5- and 6-year-old fish present, and there are some weak indications, based on commercial sampling data and industry observations, that there may have been a strong 2015 year class. However, more data are needed to whether this has in fact occurred (e.g., the 2017 egg survey).

Limit Reference Point

At a CSAS peer review in April 2014, Quebec region proposed a number of potential limit reference points (LRP) for Atlantic Mackerel following the assessment, but no single point was adopted. Regardless of the LRP applied, the SSB for the stock fell deep in the critical zone.

At the assessment framework meeting in January 2017, 40% B_{msy} was selected as the LRP, which was calculated to be 103,000 t.

Projections



In the 2017 assessment, mackerel stock was projected to have at least a 50% chance of recovery over the LRP by 2019 if total annual catches (declared and undeclared) were limited to 4,000 t or lower in 2017 and 2018. SSB was projected to have at least a 50% chance of increasing over current levels by 2019 if total annual catches were limited to approximately 23,000 t or lower in 2017-2018.

However, commercial TAC (declared catch) is a subset of total catches. Potential commercial TACs, taking into account the fact that total catches may be higher because of unreported catches, will be discussed at the Atlantic Mackerel Advisory Committee on March 30, 2017.

Current views from stakeholders and external context

The Atlantic Mackerel Advisory Committee is concerned that reducing TAC levels would compromise future access if the stock is co-managed with the US in the future.

Industry view generally is that the Mackerel stock is in better shape than it is according to the DFO stock assessment; their experience fishing is that Mackerel abundance is not as low as it is estimated to be according to the assessment.

However it must be noted that Mackerel are schooling fish and stick to a narrow temperature range and therefore can be caught in large numbers even at low abundance. Because of this high degree of local aggregation, Mackerel are easy to deplete to very low levels and high abundance cannot be inferred from high catches in localized areas.

Some industry members are of the view that Mackerel is a "cyclical species", i.e. it has unpredictable strong year classes and a highly migratory nature, and therefore protection of the spawning stock is less critical. It is true

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that the spawner-per-recruit relationship for fish with a life history similar to Mackerel (short-lived early maturing fish) is typically weak – and that a good year-class can come from a small spawning stock biomass.

However, it must be noted that current low biomass levels are unprecedented and there is high uncertainty about how well the stock could recover from these low levels and even lower levels in the future. Also, the last few strong year classes have been quickly fished out as exploitation levels were very high, and thus did not have an opportunity to rebuild the stock.

If fishing pressure were to be reduced, recovery could be relatively quick compared to a later maturing gadoid, for instance. Restraint in the short-term could potentially materialize into a healthy productive stock in 5—10 years.

In September 2014, Atlantic Mackerel was put on a priority list by the Marine Fishes subcommittee of COSEWIC in consideration for assessment by COSEWIC given the high rate of decline in the stock and the large discrepancy between the science advice and the TAC. As of February 2017 Mackerel is still on this list as a medium priority. The subcommittee will be tracking the status of Atlantic Mackerel to determine if it should be moved forward for assessment. If the species were to be assessed as at risk, the Department would be required to make a decision on whether or not to list the species under SARA.

International context

The Northwest Atlantic Mackerel stock overlaps with the American stock in US waters and with that come some considerations for the management of the fishery. The US fishery is prosecuted on a mixed component in the winter.

Atlantic Mackerel is currently managed by DFO in Canadian waters, and by NOAA in US waters. The US assessment includes both the Canadian and the American mackerel contingents (NAFO Subareas 3-6) because their fishery is conducted in winter at a time when Canadian mackerel is present in US waters.

At the last Canada/US joint stock assessment in 2010, there were differing views between the two countries on the stock status that were in large part due to the lack of a robust assessment model. Since then, Canada has completed three stock assessments in 2012, 2014, and 2017. The next US assessment is scheduled for fall 2017 and members of DFO Science will be present on the assessment working group.

There is Canadian industry support to resume work with the US on a joint stock assessment. Collaboration on the science and management will be critical to rebuilding the depleted stock.

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Marentette, Julie

From: Lester, Brian
Sent: March-21-17 8:16 AM
To: Marentette, Julie; Cawthray, Jenness
Subject: Re: Mackerel fishery TAC decision?

It depends on how long it takes to get agreement within Department (RM/regions and Science) and get Ministerial approval but ideal would be by end of April.

Sent from my BlackBerry 10 smartphone on the Rogers network.

From: Marentette, Julie
Sent: Monday, March 20, 2017 3:39 PM
To: Lester, Brian; Cawthray, Jenness
Subject: Mackerel fishery TAC decision?

Good afternoon Brian and Jenness,

I am searching for information on how the Mackerel fishery typically operates to add to Science briefing documents. If AMAC occurs March 30, when does the TAC decision normally get reached? Thanks!

Best regards,

Julie Marentette, Ph.D.
Science Advisor, Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Julie.Marentette@dfo-mpo.gc.ca /Tel: 613-943-2098
Conseillère scientifique, Sciences des populations halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Julie.Marentette@dfo-mpo.gc.ca /Tél: 613-943-2098

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Cormier, Mélanie

De: Cawthray, Jenness
Envoyé: 23 mars 2017 14:23
À: Rivierre, Antoine
Objet: RE: AMAC meeting on Friday

It is for e-logs, dockside monitoring. It sounds like we making steps to improve real time reporting in the Gulf Region.

From: Rivierre, Antoine
Sent: March-23-17 2:17 PM
To: Cawthray, Jenness
Subject: RE: AMAC meeting on Friday

Can you tell me what is real time reporting for you ?

A.

De : Cawthray, Jenness
Envoyé : March-23-17 2:15 PM
À : Rivierre, Antoine
Objet : RE: AMAC meeting on Friday

Thank you!

From: Rivierre, Antoine
Sent: March-23-17 1:16 PM
To: Cawthray, Jenness; Mallet, Pierre; Thomas, Tashina; Gaudet, Mario; Dunne, Erin; Waters, Christa; Doniol-Valcroze, Thomas; Castonguay, Martin
Subject: RE: AMAC meeting on Friday

See below for my comments

Antoine

De : Cawthray, Jenness
Envoyé : March-23-17 10:19 AM
À : Mallet, Pierre; Thomas, Tashina; Gaudet, Mario; Dunne, Erin; Waters, Christa; Doniol-Valcroze, Thomas; Rivierre, Antoine; Castonguay, Martin
Cc : Lester, Brian
Objet : AMAC meeting on Friday

Hi All,

We had a few action items from our call several days ago.
In order to get prepared for our meeting next week, could you please provide the following information as discussed on our last call.

1) A list of other issues we or industry may want to discuss or raise that are not covered on the agenda
Je pense que la plupart des enjeux sont déjà dans l'agenda.
- Hail-in

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- Logbooks
- Daily limit in the recreational fishery
- *proof of purchase for bait*

2) Views on real time reporting?

Are you talking about electronic logbooks ?

3) Are current limits on bait timing appropriate? There seem to be some variation among Regions. Do we need to provide some consistency?

Consistency is always the best when it's possible ☺ !! In Quebec we have a limit on bait license for 2017

c)	The licence holder/fishing vessel operator must remove his gillnets used for bait purposes from the water within 10 days following :	
	(i)	reaching the individual quota that was granted to him for a fishery requiring bait; or
	(ii)	the closure of the fishery requiring bait.

We also have a daily catch limit

(3)	Maximum daily catch limit	
	a)	The licence holder/fishing vessel operator is authorized to catch and keep a maximum of 907 kg of herring or mackerel or of a combination of both species per fishing trip.

4) Feel free to add any other items.

We will meet again on Friday to discuss issues for AMAC.

Thanks!

Jenness Cawthray
Senior Fisheries and Aquaculture Management Officer |
Agent principal, Gestion des pêches et de l'aquaculture
Fisheries and Oceans | Pêches et océans
200 rue Kent Street - 13S013 Ottawa, ON, K1A 0E6
Jenness.Cawthray@dfo-mpo.gc.ca
Telephone | Téléphone (613) 998-1524
Facsimile | Télécopieur (613) 990-7051
Government of Canada | Gouvernement du Canada

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Cormier, Mélanie

De: [redacted]
Envoyé: 24 mars 2017 22:12
À: Rivierre, Antoine
Objet: mackerel advisory committee

on behalf of the (transformateur du sud de la GASPESIE) i wood like to have a place at the table thank you

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Cormier, Mélanie

De: Deslauriers, Marcelle
Envoyé: 24 mars 2017 15:41
À: Rivierre, Antoine
Objet: Maquereau Québec liste distribution
Pièces jointes: Atlantic Mackerel Advisory Committee Members - 2016

G:\Gp\Gr\Pélagique\Petit pélagique\Maquereau (8350-016)\2017\Atlantic Mackerel Advisory Committee Members - Québec 2017.msg

Marcelle Deslauriers
Agente régionale, Direction de la gestion de la ressource et de l'aquaculture
Pêches et Océans Canada – Région du Québec | Gouvernement du Canada
Marcelle.Deslauriers@dfo-mpo.gc.ca / Tél.: 418-648-3554 / Téléc. : (418) 648-7981

Regional Agent, Resource Management and Aquaculture Division
Fisheries and Oceans Canada – Quebec Region | Canada Government
Marcelle.Deslauriers@dfo-mpo.gc.ca / Tel.: 418-648-3554 / Fax. : (418) 648-7981

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s.21(1)(b)

Thomas, Tashina

From: Mallet, Pierre
Sent: March-24-17 1:17 PM
To: Lester, Brian
Cc: Gaudet, Mario; Thomas, Tashina
Subject: RE: Mackerel landings

We will be there at 13h00, is that ok?

From: Lester, Brian
Sent: March-24-17 1:07 PM
To: Mallet, Pierre
Subject: RE: Mackerel landings

I would like to meet on Wednesday as a follow-up to my FN meeting on Tuesday PM. Wednesday afternoon would be good if that is possible for you guys.

I think I will be working on the TORs for a Mackerel rebuilding plan WG Wed. morning.

From: Mallet, Pierre
Sent: 2017-March-24 11:28 AM
To: Lester, Brian
Subject: RE: Mackerel landings

Do we have a pre-meeting Wednesday afternoon. We can be there anytime Wednesday

From: Lester, Brian
Sent: March-24-17 12:00 PM
To: Mallet, Pierre
Subject: RE: Mackerel landings

When are you arriving?

From: Mallet, Pierre
Sent: 2017-March-24 8:40 AM
To: Waters, Christa; Cawthray, Jenness; Rivierre, Antoine; Gaudet, Mario; Thomas, Tashina; Dunne, Erin; Lester, Brian; Doniol-Valcroze, Thomas
Subject: RE: Mackerel landings

We will be in Halifax Wednesday night only.

From: Waters, Christa
Sent: March-24-17 9:32 AM
To: Cawthray, Jenness; Rivierre, Antoine; Mallet, Pierre; Gaudet, Mario; Thomas, Tashina; Dunne, Erin; Lester, Brian; Doniol-Valcroze, Thomas
Subject: RE: Mackerel landings

On another not...

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=)

Christa
rom: Cawthray, Jenness
Sent: March 23, 2017 3:45 PM
To: Rivierre, Antoine; Mallet, Pierre; Gaudet, Mario; Thomas, Tashina; Waters, Christa; Dunne, Erin
Subject: Mackerel landings
Importance: High

Hello All,

Could you please confirm that my Mackerel figures for the 2016 fishery are correct?

NL: 4610t
Québec: 852t
Maritimes : 1198t
Gulf: 1200t (??)

Thank you,

Jenness Cawthray
Senior Fisheries and Aquaculture Management Officer |
Agent principal, Gestion des pêches et de l'aquaculture
Fisheries and Oceans | Pêches et océans
200 rue Kent Street - 13S013 Ottawa, ON, K1A 0E6
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Facsimile | Télécopieur (613) 990-7051
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Thomas, Tashina

From: Lapierre, Daniel
Sent: March-24-17 2:11 PM
To: Thomas, Tashina
Subject: RE: Mackerel

Categories: Green Category

Hi Tashina,

One of the DMC was asking and I wasn't sure either, could you confirm with Pierre which one he had in mind, I assume he's the one that has the final say.

Merci

Daniel

From: Thomas, Tashina
Sent: 2017–March-24 2:04 PM
To: Lapierre, Daniel
Cc: Mallet, Pierre; Lemay, Gaëlle; Hachey, Carole M
Subject: RE: Mackerel

Hi Daniel,
I thought we were going to create a new one as a few lines were different from the gillnets. I'm not sure who would be responsible to create those forms.
If not I would use "espèces".

Tashina

From: Lapierre, Daniel
Sent: March-23-17 11:27 AM
To: Thomas, Tashina
Cc: Mallet, Pierre
Subject: FW: Mackerel

Bonjour Tashina,

Je ne me rappelle pas si vous aviez établi de façon définitive quel formulaire vous souhaitiez utiliser pour le maquereau, est-ce possible de confirmer.

Merci

Daniel

From: Island Weigh 95, Inc. [mailto:Islandweigh@hotmail.com]
Sent: 2017–March-23 10:32 AM
To: Lapierre, Daniel
Subject: Mackerel

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s.19(1)

Hi Daniel,

Can you please confirm ASAP what weighout forms we will be using for monitoring mackerel this coming year? Thanks.

President
Island Weigh 95, Inc.
PEI Dockside Monitoring Co.
P.O. Box 490
220 Harper Road
Tignish, PE
C0B 2B0
Ph: (902) 882-3186
Cell:
Website: islandweigh.com

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Thomas, Tashina

From: Gaudet, Mario
Sent: March-24-17 2:36 PM
To: Lester, Brian; Castonguay, Martin; Cawthray, Jenness
Cc: Mallet, Pierre; Thomas, Tashina; Dunne, Erin; Waters, Christa; Doniol-Valcroze, Thomas; Rivierre, Antoine
Subject: RE : AMAC meeting on Friday

In IFMP...

CONSULTATIVE PROCESS
Throughout Atlantic Canada and in Québec, the Department of Fisheries and Oceans holds regional/local consultations annually on small pelagic fish issues, including mackerel issues. At least every second year or more often if needed, the Atlantic Mackerel Advisory Committee (AMAC) will meet to address the multi-year Atlantic-wide mackerel plan. This Atlantic-wide Committee provides the main forum for representatives of industry, governments and other interested groups to provide input into the development of management measures for the mackerel fishery.
The AMAC is composed of representatives from the fishing industry (Aboriginal groups, inshore fleets and large seiners), the processing industry, the provinces of Newfoundland and Labrador, Nova Scotia, Québec, New Brunswick and Prince Edward Island, and the Department of Fisheries and Oceans (Resource Management, Science, Conservation and Protection and others). To ensure orderly meetings, the number of members per DFO Region who sit at the meeting table is limited to one representative per Aboriginal group or community, three for the inshore fleets, one for the large seiners, and two for the processing industry. In addition, there is one government representative per province. Other interested parties may attend as observers. Meetings of the AMAC are generally open to the public.
Final approval and distribution of Atlantic-wide plans is handled by DFO-Resource Management in Ottawa, in concert with regional representatives.

De : Lester, Brian
Envoyé : 24 mars 2017 11:57
À : Castonguay, Martin; Gaudet, Mario; Cawthray, Jenness
Cc : Mallet, Pierre; Thomas, Tashina; erin.dunn@dfo-mpo.gc.ca; Waters, Christa; Doniol-Valcroze, Thomas; Rivierre, Antoine
Objet : RE: AMAC meeting on Friday

Thanks Martin: We talked about this on the call earlier this week and I will ask AMAC members for volunteers to participate in a WG to develop a PA compliant rebuilding plan. While I have not yet set timelines, or the TOR for the group, my goal was to get the WG up and running this year with an aim to complete a plan for presentation at the 2019 AMAC meeting. I am hoping you will be interested in participating on the WG at least until you have a replacement for Thomas.

Talk later.

Brian

From: Castonguay, Martin
Sent: 2017–March-24 10:51 AM
To: Gaudet, Mario; Cawthray, Jenness
Cc: Lester, Brian; Mallet, Pierre; Thomas, Tashina; erin.dunn@dfo-mpo.gc.ca; Waters, Christa; Doniol-Valcroze, Thomas; Rivierre, Antoine
Subject: RE: AMAC meeting on Friday

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Hi,

I would like to add one agenda item: formation of a working group to develop the PA. The WG would involve DFO FM, DFO Science and Industry.

I argue we should start the PA in 2017.

Martin

De : Gaudet, Mario
Envoyé : 24 mars 2017 10:30
À : Cawthray, Jenness
Cc : Lester, Brian; Mallet, Pierre; Thomas, Tashina; erin.dunn@dfo-mpo.gc.ca; Waters, Christa; Doniol-Valcroze, Thomas; Rivierre, Antoine; Castonguay, Martin
Objet : RE : AMAC meeting on Friday

Hi Jenness,

I was not on the call last Tuesday due to other commitments but here are a few observations:

1) Impact of potential changes to management measures...most items already in agenda: DMP, Hail-in, logs, rec fishery limits.

2) hail-in estimates? / e-logs? /quota reports? / other?

3) Consistency between regions should be explored and implemented when possible especially for similar fleets...landing limits, gear type, timing of fishery, area closures, etc.

4) IFMP - update the 2007 version: working group?

Looking forward to our discussion this afternoon...

Mario

De : Cawthray, Jenness
Envoyé : 23 mars 2017 11:19
À : Mallet, Pierre; Thomas, Tashina; Gaudet, Mario; Dunne, Erin; Waters, Christa; Doniol-Valcroze, Thomas; Rivierre, Antoine; Castonguay, Martin
Cc : Lester, Brian
Objet : AMAC meeting on Friday

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2) Views on real time reporting?
3) Are current limits on bait timing appropriate? There seem to be some variation among Regions. Do we need to provide some consistency?
4) Feel free to add any other items.

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We will meet again on Friday to discuss issues for AMAC.

Thanks!

Jenness Cawthray
Senior Fisheries and Aquaculture Management Officer |
Agent principal, Gestion des pêches et de l'aquaculture
Fisheries and Oceans | Pêches et océans
200 rue Kent Street - 13S013 Ottawa, ON, K1A 0E6
Jenness.Cawthray@dfo-mpo.gc.ca
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Government of Canada | Gouvernement du Canada

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Thomas, Tashina

From: Thomas, Tashina
Sent: March-24-17 4:36 PM
To: Lemay, Gaëlle; Hachey, Carole M; Lapierre, Daniel; Mallet, Pierre
Subject: RE: Mackerel

We have our meeting with the industry Thursday in Halifax. Pierre, should we wait?

From: Lemay, Gaëlle
Sent: March-24-17 3:27 PM
To: Hachey, Carole M; Thomas, Tashina; Lapierre, Daniel
Cc: Mallet, Pierre
Subject: RE: Mackerel

Ps: I received an email from Island Weigh saying they would have like to know early next week as they will be training their observers. Can we make a decision on Monday?

From: Lemay, Gaëlle
Sent: March-24-17 3:26 PM
To: Hachey, Carole M; Thomas, Tashina; Lapierre, Daniel
Cc: Mallet, Pierre
Subject: RE: Mackerel

I don't care either way. Up to science and RM to decide!

From: Hachey, Carole M
Sent: March-24-17 2:21 PM
To: Thomas, Tashina; Lapierre, Daniel
Cc: Mallet, Pierre; Lemay, Gaëlle
Subject: RE: Mackerel

Here's my 2-cents worth on this.

You all need to decide exactly what information you need on the form. Once final, I have templates here that I can modify to create the form that will then be sent to DMCs. If the forms need a unique number, DMCs will have to send to their local print shop, so please take this into consideration so DMCs don't receive the form at the last minute.

Carole Hachey

Fisheries and Oceans – Gulf Region/Government of Canada
Carole.Hachey@dfo-mpo.gc.ca/Tel : 506-851-7729/Fax : 506-851-2504

Pêches et Océans Canada – Région du Golfe/Gouvernement du Canada
Carole.Hachey@dfo-mpo.gc.ca/Téléphone : 506-851-7729/Télécopieur : 506-851-2504

From: Thomas, Tashina
Sent: March-24-17 2:04 PM
To: Lapierre, Daniel
Cc: Mallet, Pierre; Lemay, Gaëlle; Hachey, Carole M
Subject: RE: Mackerel

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Hi Daniel,
I thought we were going to create a new one as a few lines were different from the gillnets. I'm not sure who would be responsible to create those forms.
If not I would use "espèces".

Tashina

From: Lapierre, Daniel
Sent: March-23-17 11:27 AM
To: Thomas, Tashina
Cc: Mallet, Pierre
Subject: FW: Mackerel

Bonjour Tashina,

Je ne me rappelle pas si vous aviez établi de façon définitive quel formulaire vous souhaitiez utiliser pour le maquereau, est-ce possible de confirmer.

Merci

Daniel

From: Island Weigh 95, Inc. [mailto:Islandweigh@hotmail.com]
Sent: 2017–March-23 10:32 AM
To: Lapierre, Daniel
Subject: Mackerel

Hi Daniel,

Can you please confirm ASAP what weighout forms we will be using for monitoring mackerel this coming year? Thanks.

President
Island Weigh 95, Inc.
PEI Dockside Monitoring Co.
P.O. Box 490
220 Harper Road
Tignish, PE
C0B 2B0
Ph: (902) 882-3186
Cell:
Website: islandweigh.com

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DFO Maritimes Region Data Request Form

(All fields must be completed)

Please complete electronically and return by email to XMARComData@dfo-mpo.gc.ca

or Fax to (902) 426-3254

Client Name:	Christa Waters/ and NHQ
Client Contact Information:	Phone Number: 902-293-6541 E-mail:
Organization: *(Please check all that apply)*	**External** ☐ Provincial Gov't: ☐ Academic: ☐ Association: ☐ NGO: ☐ Licence Holder: ☐ Other: **DFO** ☒ Maritimes Region: ☐ Gulf Region: ☐ Newfoundland Region: ☐ Quebec Region: ☐ Central and Arctic: ☐ Pacific Region: ☐ National Headquarters: **DFO continued** ☐ DFO Science: ☐ C&P: ☐ Oceans: ☒ Resource Management: ☐ Policy: ☐ Economics: ☐ Other:
Data Format:	☒ XLS ☐ PDF ☐ CSV ☐ Other:
Data Description: *(Please provide a detailed description of the data requested)*	1. Landings of Mackerel (maritimes Region) by licence and gear and date landed for 2016 (herring/mackerel bait; gillnet/handline/; weir; trap; purse seine; bycatch in other fisheries please note that the herring weir landings of mackerel can be considered mackerel fishing (they have both a herring and mackerel licence on the wiers, so likely they are reporting it all on herring.
Time Period Required:	☒ Calendar year(s): 2016 ☐ Fishery Season (for species and area(s) indicated): ☐ Other, e.g., month(s), day(s):
Date data requested:	March 24, 2017
Date data required:	March 29, 2017
Intended use of data: *(Check all that are applicable and provide a description)*	☐ Industry Information ☐ Public Publication ☐ Internal Research (DFO) ☐ Consultation with Industry ☐ Legal Proceedings ☐ Internal Publication (DFO) ☐ Academic Research ☐ NGO Research ☒ Other: *Detailed Description:* This data will be used for presenting at the AMAC.
Previous Request # or Report # *(If applicable)*	RQ20170058

DFO Maritimes Data Request Service Standards

- A receipt of the request and a tracking number will be issued
- We will endeavor to provide data within the time frame identified in the data request
- If we are unable to meet this time frame, we will contact the client as soon as possible to determine an alternative schedule

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DFO Maritimes Region Data Request Form

Thank you for your data request! Commercial Data Division

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s.19(1)

Waters, Christa

From: Waters, Christa
Sent: March-24-17 1:54 PM
To: Smith, Colleen A
Subject: RE: Draft Agenda Maritimes Mackerel Advisory Committee
Attachments: 2017_MARMAC_draft agenda_clw.docx

Colleen,
Please see email that just came in [redacted]. I have provided some info here... thought it should come from you.

Hello [redacted]
The science information is not available distribution until it is finalized. Just like our RAP process here. We are still deep in the critical zone, with some minor improvements in age structure.
The meeting yesterday was a Maritimes Region meeting only. It was to provide stakeholders with the information they need going into the Atlantic Wide Mackerel advisory committee and to discuss some regional mackerel issues. All topics on the agenda were discussed. In case you have deleted the email with the agenda, I will attach it here.

Christa

From: [redacted]
Sent: March 24, 2017 1:48 PM
To: Waters, Christa
Subject: RE: Draft Agenda Maritimes Mackerel Advisory Committee

Hi Christa:

I didn't get a chance to attend the meeting as I was in the MSC 2 day consultation session.

As you may recall, I need to report on mackerel status as mackerel is 2 or of our 5 conditions for the MSC certification for lobster.

Can you provide electronically the information regarding the assessment update, and management measures that was tabled?

Ideally you can forward today as I am just finalizing the client submission for the surveillance audit in 2 weeks.

Thanks

[redacted]

On March 21, 2017 at 4:09 PM "Waters, Christa" <Christa.Waters@dfo-mpo.gc.ca> wrote:

Hello Again,
Let's try that again. Here are the attachments.
Christa

Christa Waters
Regional Senior Fisheries Management Advisor

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Resource Management | Gestion des Pêches
Maritimes Region | Région des Maritimes
Telephone | Téléphone 902-293-6541

From: Waters, Christa
Sent: March 21, 2017 3:36 PM
To: Atlantic Herring Co-op / Full Bay Scallop; Bieren, Stacey; Boone, Brian (DAAF/MAAP); Campbell, Michael; Chenev, Sarah; Erika Perrier; Fort Folly FN; North of Smokey; <pocket.fisheries@ns.sympatico.ca>; Singh, Rabindra; Surette, Dwayne E; wfnfisheries@bellaliant.net
Cc: Morash, Paul; Curwin, Ryan
Subject: Draft Agenda Maritimes Mackerel Advisory Committee

Hello,

Attached is the draft agenda for our meeting. It is a lot to cram into three hours. If we are unable to get through all of it, we will have to talk about another meeting or call to complete.

I have also attached the draft Terms of Reference as we will be talking about this document at the meeting as well.

Thanks,

Christa

Christa Waters
Regional Senior Fisheries Management Advisor
Resource Management | Gestion des Pêches
Maritimes Region | Région des Maritimes
Fisheries and Oceans Canada | Pêches et Océans Canada
P.O. Box 1006 | C.P. 1006
Dartmouth, NS Canada B2Y 4A2 | Dartmouth, NÉ Canada B2Y 4A2
Christa.Waters@dfo-mpo.gc.ca
Telephone | Téléphone 902-293-6541
Government of Canada | Gouvernement du Canada

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s.21(1)(b)

Boudreau, Carol-Ann

From: Landry, Jean
Sent: March-27-17 7:08 AM
To: Burns, Adam; Jenkins, Randy; Lester, Brian
Cc: Krohn, Martha; Marentette, Julie; McPherson, Arran; de Lafontaine, Yves
Subject: TR: Sommaire revue maquereau Atlantique / Atlantic mackerel assessment summary
Attachments: Annexe 1 Sommaire maquereau _fra_ang.docx; Maquereau 2017-Memo-DM_FR.docx

EFM colleagues,

Please take note of this information about mackerel that was sent to our ADM late last Friday. The first document includes the summary bullets of the last full assessment (approved by the RDS), for internal use in prep for AMAC. . I also put these bullets in the email below. You will note that bullet no 9 is a bit vague in terms of possible harvest scenarios. This is essentially because the analysis related to the various harvest scenarios were finalized once the peer review meeting was completed [redacted] However, multiple harvest scenarios are available with their associated probability of allowing the biomass to increase. Two of these scenarios are available in the second document (bullets in yellow – in French).

I am not sure about who will present what at AMAC but I am available to discuss with you and our regional science colleagues before AMAC if needed.

Jean

SUMMARY: ASSESSMENT OF ATLANTIC MACKEREL STOCK IN SUBAREA 3 AND 4

- Reported commercial landings of Atlantic mackerel in NAFO subareas 3 and 4 have decreased significantly in recent years. Between 2005 and 2013, they decreased from 54,621 t to 8,663 t before reaching 6,680 t in 2014 and 4,143 t in 2015. In 2016, the TAC of 8,000 t was reached.
- US landings (commercial and recreational) in NAFO subareas 5 and 6 also decreased significantly in recent years. Between 2005 and 2012, they decreased from 43,220 t to about 6,000 t and have remained at that level from 2013 to 2015.
- The issue of unrecorded catches has been investigated using a review of available data on bait needs and recreational fisheries, as well as an online survey aimed at mackerel fishermen. Both approaches show that total catches can reach 150% to 200% of declared catches, and that this ratio varies among regions and years.
- Following its increase in recent years, the length at 50% maturity has remained slightly above the minimum authorized length of 263 mm.
- The age structure in the fishery has contracted considerably since 2000 following the disappearance of fish older than 7 years. However, a slight improvement has been observed since 2013, with an increase of mackerel of ages 5 and 6.
- The abundance index from the egg survey in the southern Gulf reached its lowest level in 2012 (14,568 t), then slowly increased to 52,667 t in 2016. This value remains far below the abundance levels of over 750,000 t observed in the 1980s.
- A "censored" statistical catch-at-age model, calibrated with the abundance index from the egg survey and taking into account the uncertainty due to unrecorded catches, confirms that mackerel spawning

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s.16(2)

biomass has declined due to high exploitation rates and reached its historical minimum in 2012 (20,000 t). According to the model, the 2016 spawning biomass was 40,000 t.

- The Limit Reference Point (LRP) for this stock is a proxy of $40\%B_{msy}$ based on $F_{40\%}$ derived from a yield-per-recruit analysis. According to the censored model, stock abundance in 2016 was about 40% of the 103,000 t LRP.
- Model projections were used to quantify the risks associated with different catch scenarios. Considering that the stock is in the critical zone, total catches (declared + unreported) should be low enough to facilitate recovery.
- It is particularly important to fill gaps in the biological sampling of the commercial catch in some areas, to accelerate compiling of landing statistics and to improve data collection on unreported catches.

Jean Landry

Director , Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Jean.Landry@dfo-mpo.gc.ca / Tel: 613-993-0029

Directeur, Sciences halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Jean.Landry@dfo-mpo.gc.ca / Tél. : 613-993-0029

Government of Canada / Gouvernement du Canada — Canada

De : de Lafontaine, Yves
Envoyé : 24 mars 2017 16:26
À : Swerdfager, Trevor <Trevor.Swerdfager@dfo-mpo.gc.ca>
Cc : Landry, Jean <Jean.Landry@dfo-mpo.gc.ca>; McPherson, Arran <Arran.McPherson@dfo-mpo.gc.ca>; Gilbert, Michel <Michel.Gilbert@dfo-mpo.gc.ca>
Objet : Sommaire revue maquereau Atlantique / Atlantic mackerel assessment summary

Bonjour,

Please find in attachment the summary report of the last assessment meeting for Atlantic mackerel held in Mont-Joli on March 9th.

If questions, do not hesitate to contact me.

Yves de Lafontaine

Directeur, Institut Maurice Lamontagne
Directeur, Direction régionale des Sciences
Pêches et Océans Canada / Gouvernement du Canada
Yves.delafontaine@dfo-mpo.gc.ca Tél. : 418-775-0555 / tél. cell. : [redacted]

Director, Maurice Lamontagne Institute
Director, Sciences regional directorate
Fisheries and Oceans Canada / Government of Canada
Yves.delafontaine@dfo-mpo.gc.ca Tel : 418-775-0555 / Cel. : [redacted]

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Ma langue, une question de respect / My language, a matter of respect

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pages 2189 to / à 2190

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Krohn, Martha

From: Marentette, Julie
Sent: March-27-17 5:07 PM
To: Landry, Jean; Krohn, Martha
Subject: RE: Sommaire revue maquereau Atlantique / Atlantic mackerel assessment summary
Attachments: Atlantic Mackerel Projection Slide 170327.ppt

Categories: Red Category

Hello Jean,

Thank you for the update – and yes, that is the same projection table.

Here's an amended table, with a TAC column, on a slide that I can include in the briefing deck if you like?

Best regards,

Julie Marentette, Ph.D.

Science Advisor, Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Julie.Marentette@dfo-mpo.gc.ca /Tel: 613-943-2098

Conseillère scientifique, Sciences des populations halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Julie.Marentette@dfo-mpo.gc.ca /Tél: 613-943-2098

From: Landry, Jean
Sent: March-27-17 4:24 PM
To: Krohn, Martha
Cc: Marentette, Julie
Subject: TR: Sommaire revue maquereau Atlantique / Atlantic mackerel assessment summary

The projection table that Michel just shared with me (likely the same than the one Julie sent to us previously). Michel was relatively sure that Thomas will present this whole table at AMAC. He said he will confirm with Martin and Thomas. Michel also said that he will share the deck that Thomas will present with us before AMAC.

Jean Landry

Director , Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Jean.Landry@dfo-mpo.gc.ca / Tel: 613-993-0029

Directeur, Sciences halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Jean.Landry@dfo-mpo.gc.ca / Tél. : 613-993-0029

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Canada

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De : Gilbert, Michel
Envoyé : 27 mars 2017 16:01
À : Landry, Jean <Jean.Landry@dfo-mpo.gc.ca>
Objet : TR: Sommaire revue maquereau Atlantique / Atlantic mackerel assessment summary

Michel Gilbert, M. Sc.
Directeur / Director
Direction des sciences pélagiques et écosystémiques / Pelagic and Ecosystem Science Branch
Direction régionale des Sciences / Regional Science Directorate
Pêches et Océans Canada / Fisheries and Oceans Canada
Institut Maurice-Lamontagne / Maurice Lamontagne Institute
850, Route de la Mer, C.P. 1000
Mont-Joli, Québec, Canada G5H 3Z4
Tél. / Tel. : (418) 775-0604
Téléc. / Fax : (418) 775-0718
Courriel / E-mail : michel.gilbert@dfo-mpo.gc.ca
http://www.qc.dfo-mpo.gc.ca/iml

Ma langue, une question de respect
My language, a matter of respect

De : Doniol-Valcroze, Thomas
Envoyé : 27 mars 2017 09:45
À : Gilbert, Michel; Castonguay, Martin
Objet : RE: Sommaire revue maquereau Atlantique / Atlantic mackerel assessment summary

Martin, Michel,

Voici la table des projections/scenarios qui a été présentée à la gestion de manière préliminaire et que je comptais présenter à AMAC. Nous en avons discuté à deux reprises en appel conférence avec Brian Lester et les gestionnaires de chaque région au cours de la semaine dernière. [redacted]

Thomas

De : Gilbert, Michel
Envoyé : 27 mars 2017 09:16
À : Castonguay, Martin
Cc : Doniol-Valcroze, Thomas
Objet : TR: Sommaire revue maquereau Atlantique / Atlantic mackerel assessment summary

Martin,

Pour ton info et réflexion. Je vais parler à Jean aujourd'hui et il nous faudrait discuter par la suite des scénarios à présenter.

Je t'en reparle dès que j'ai parlé à Jean.

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s.21(1)(b)

Michel G.

Michel Gilbert, M. Sc.
Directeur / Director
Direction des sciences pélagiques et écosystémiques / Pelagic and Ecosystem Science Branch
Direction régionale des Sciences / Regional Science Directorate
Pêches et Océans Canada / Fisheries and Oceans Canada
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850, Route de la Mer, C.P. 1000
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Tél. / Tel. : (418) 775-0604
Téléc. / Fax : (418) 775-0718
Courriel / E-mail : michel.gilbert@dfo-mpo.gc.ca
http://www.qc.dfo-mpo.gc.ca/iml

Ma langue, une question de respect / My language, a matter of respect

De : de Lafontaine, Yves
Envoyé : 27 mars 2017 07:51
À : Gilbert, Michel
Objet : Tr: Sommaire revue maquereau Atlantique / Atlantic mackerel assessment summary

Michel
Peux-tu voir avec Jean pour les scénarios à présenter à AMAC. [redacted] Il faut amener un nombre minimum de scenarios.

Envoyé de mon smartphone BlackBerry 10 sur le réseau Bell.

De: Landry, Jean <Jean.Landry@dfo-mpo.gc.ca>
Envoyé: lundi 27 mars 2017 07:08
À: Burns, Adam; Jenkins, Randy; Lester, Brian
Cc: Krohn, Martha; Marentette, Julie; McPherson, Arran; de Lafontaine, Yves
Objet: TR: Sommaire revue maquereau Atlantique / Atlantic mackerel assessment summary

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Jean

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SUMMARY: ASSESSMENT OF ATLANTIC MACKEREL STOCK IN SUBAREA 3 AND 4

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Jean Landry
Director , Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Jean.Landry@dfo-mpo.gc.ca / Tel: 613-993-0029

Directeur, Sciences halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Jean.Landry@dfo-mpo.gc.ca / Tél. : 613-993-0029

Government of Canada / Gouvernement du Canada

Canada

De : de Lafontaine, Yves
Envoyé : 24 mars 2017 16:26
À : Swerdfager, Trevor <Trevor.Swerdfager@dfo-mpo.gc.ca>
Cc : Landry, Jean <Jean.Landry@dfo-mpo.gc.ca>; McPherson, Arran <Arran.McPherson@dfo-mpo.gc.ca>; Gilbert,

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s.16(2)

Michel <Michel.Gilbert@dfo-mpo.gc.ca>
Objet : Sommaire revue maquereau Atlantique / Atlantic mackerel assessment summary

Bonjour,

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If questions, do not hesitate to contact me.

Yves de Lafontaine

Directeur, Institut Maurice Lamontagne
Directeur, Direction régionale des Sciences
Pêches et Océans Canada / Gouvernement du Canada
Yves.delafontaine@dfo-mpo.gc.ca Tél. : 418-775-0555 / tél. cell. : [redacted]

Director, Maurice Lamontagne Institute
Director, Sciences regional directorate
Fisheries and Oceans Canada / Government of Canada
Yves.delafontaine@dfo-mpo.gc.ca Tel : 418-775-0555 / Cel. : [redacted]

Ma langue, une question de respect
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Converting Projections to TACs

Potential TACs (if total = 150-200% of declared)	declared + undeclared catches (t)		2017		2018		2019		
	2017	2018	SSB (t)	Exp. Rate	SSB (t)	Exp. Rate	SSB (t)	prob. >2016	prob. >LRP
n/a	0	0	48,283	0.00	77,164	0.00	113,886	0.95	0.56
2,000 – 2,667	4,000	4,000	48,283	0.08	72,175	0.06	103,378	0.93	0.50
3,000 – 4,000	6,000	6,000	48,283	0.13	68,503	0.09	96,927	0.92	0.46
4,000 – 5,333	8,000	8,000	48,283	0.17	64,910	0.12	90,889	0.89	0.42
5,000 – 6,667	10,000	10,000	48,283	0.21	62,762	0.16	85,686	0.87	0.40
6,000 – 8,000	12,000	12,000	48,283	0.25	59,466	0.21	77,143	0.84	0.34
7,000 – 9,333	14,000	14,000	48,283	0.29	56,858	0.24	72,189	0.81	0.30
8,000 – 10,667	16,000	16,000	48,283	0.33	54,018	0.29	66,158	0.77	0.26
9,000 – 12,000	18,000	18,000	48,283	0.38	50,928	0.36	57,113	0.70	0.20
10,000 – 13,333	20,000	20,000	48,283	0.42	47,502	0.42	51,348	0.64	0.17
12,000 – 16,000	24,000	24,000	48,283	0.50	41,704	0.59	35,728	0.44	0.09
15,000 – 20,000	30,000	30,000	48,283	0.62	33,053	0.90	17,199	0.16	0.02

Canada

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s.19(1)

Blewett, Catherine

From: Blewett, Catherine
Sent: March-27-17 5:31 PM
To: Richard, Jackey; Knight, Morley
Cc: Valkenier, Mary-Ellen; Hopkins, Lillian; Burns, Adam
Subject: Re: Letter to Honourable Minister Dominic Leblanc

Great - thanks for passing it to the right person Jackey! Very helpful!

Sent from my BlackBerry 10 smartphone on the Rogers network.

From: Richard, Jackey
Sent: Monday, March 27, 2017 6:30 PM
To: Blewett, Catherine; Knight, Morley
Cc: Valkenier, Mary-Ellen; Hopkins, Lillian; Burns, Adam
Subject: Re: Letter to Honourable Minister Dominic Leblanc

Hi Catherine,

NHQ is lead on Atlantic Mackerel so am copying Adam.

I will see w my folks here on any insight as I do not know the individual and am not aware of particulars of the issue and upcoming meeting.

J

Sent from my BlackBerry 10 smartphone on the Rogers network.

From: Blewett, Catherine
Sent: Monday, March 27, 2017 6:09 PM
To: Knight, Morley; Richard, Jackey
Cc: Valkenier, Mary-Ellen; Hopkins, Lillian
Subject: Fw: Letter to Honourable Minister Dominic Leblanc

Hi there

Can I get an update on this file? Proposed response?

Thxs so much
C

Sent from my BlackBerry 10 smartphone on the Rogers network.

From: [redacted]
Sent: Monday, March 27, 2017 5:39 PM
To: Dominic Leblanc
Cc: Blewett, Catherine
Subject: Letter to Honourable Minister Dominic Leblanc

Letter is in TIF A0281449 but is witheld under s. 19 (personal Information) of the Access to Information Act

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Patterson, Pauline

De: Cawthray, Jenness
Envoyé: March-27-17 11:16 AM
À: Rivierre, Antoine; Dunne, Erin; Waters, Christa; Mallet, Pierre; Gaudet, Mario
Objet: List of participants for AMAC Table

Hi Everyone,
I will collect the lists in one shot on Tuesday afternoon from each instead of by individual confirmations if that's ok. I'm heading out soon and have a bunch of emails so I don't want to miss any confirmations.
Thanks!

Jenness Cawthray
Senior Fisheries and Aquaculture Management Officer |
Agent principal, Gestion des pêches et de l'aquaculture
Fisheries and Oceans | Pêches et océans
200 rue Kent Street - 13S013 Ottawa, ON, K1A 0E6
Jenness.Cawthray@dfo-mpo.gc.ca
Telephone | Téléphone (613) 998-1524
Facsimile | Télécopieur (613) 990-7051
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Secteur	Titre_1	Titre_Français	Titre_Anglais	Prénom	Nom
Autochtone					
Autochtone					
Autochtone					
Autochtone					
Autochtone					
Autochtone					
GP	Mrs.	Madame	Madam	Christa	Waters
GP	Monsieur	Monsieur	Sir	Antoine	Rivière
GP	Mr.	Monsieur	Sir	John	Lubar
GP	Mr.	Monsieur	Sir	Jason	Simms
GP	Monsieur	Monsieur	Sir	Pierre	Mallet
GP	Mr.	Monsieur	Sir	Brian	Lester
GP	Mrs.	Madame	Madam	Jessica	Kerwin
Transformation					
Transformation					
Transformation					
Pêche					
Pêche					
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Pêche					
Province	Mr.	Monsieur	Sir	Brian	Boone
Province	Monsieur	Monsieur	Sir	Denis	Desrosiers
Province	Mr.	Monsieur	Sir	Allan	Chandler
Province	Mrs.	Madame	Madam	Dwyer	Shelley
Université					
Université					
ONGE					
NOAA					
NOAA					
Sciences	Mr.	Monsieur	Sir	Nicolas	Duprey

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poste

Commercial Fisheries Liaison Coordinator
Commercial Fishery Manager
Director
Commissioner
Director of Fisheries
Commercial Fisheries Liaison Coordinator

Conseiller
Directeur
gestionnaire
gestionnaire
Directeur adjoint
agente principale

Directeur
Coordinator - Snow crab survey

Représentant

Manager

agent de développement
directeur
Marine Advisor, Pelagics
Resource Policy and Development Officer
Research Scientist
Postdoctoral fellow
Spécialiste senior
Research Fishery Biologist

Chef de programme pour la pêche

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Nom de la société	Adresse Ligne 1
Confederacy of Mainland Mi'kmaq	
New Brunswick Aboriginal People's Council	320 St. Mary's Stre
Maritime Aboriginal Aquatic Resources Secreteriate	172 Truro Heights I
Native Counsil of Nova Scotia	172 Truro Heights
Atlantic Policy Congress	
Unamaki Institute of Natural Resources	
Department of Fisheries and Oceans	176, Portland Stree
Pêches et Océans Canada	104, rue Dalhousie
Department of Fisheries and Oceans	1, Regent Square
Department of Fisheries and Oceans	80 East White Hills
Pêches et Océans Canada	343, avenue de l'U
Department of Fisheries and Oceans	200, Kent street
Department of Fisheries and Oceans	200, Kent street
Barry Group inc.	433 Griffin Drive
Allen's Fisheries Limited	P. O. Box 37
Blanc Sablon Seafood	415 Griffin Drive
Association des pêcheurs propriétaires des Îles-de-la-Madeleine (APPIM	
Regroupement des pêcheurs professionnels du sud de la Gaspésie (RPPSG)	
Regroupement des associations des pêcheurs de la Basse Côte-Nord	C.P. 140
FFAW / *uniFOR*	P.O. Box 548
	[redacted]
Union des pêcheurs des Maritimes	
PEI Fisherman's Association	420 University Ave
GNS herring	
Guysborough County Inshore Fishermen's Association	990 Union Street
Cape Breeze Seafoods Ltd.	P.O. Box 20
South West Seiners Co. Ltd.	P.O. Box 1 Site 18
	[redacted]
Eastern Shore Protective Fishermans Assoc	PO Box 55
Seafood Producers Association of Nova Scotia	P.O. Box 991
NS Fish Packers	
Nova Scotia Mackerel Fishermen's Assoc	RR 2
Agriculture, Aquaculture et Pêches	C.P. 1037
Ministère de l'Agriculture, des Pêcheries et de l'Alimentation du Québec	200, chemin Ste-Fc
Fisheries and Aquaculture	PO Box 278
Department of Fisheries & Aquaculture	30 Strawberry Mar
UQAR	Université du Quél
University of Dalhousie	
WWF-Canada	50, rue Ste-Catheri
NOAA / National Marine Fisheries Service	Northeast Fisherie:
NEFSC / NMFS / NOAA	28 Tarzwell Drive
Department of Fisheries and Oceans	200, Kent street

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Adresse Ligne 2	Ville	Code postal	email	Tél
et	Fredericton, NB	E3A 2S4	[redacted]	
Road	Truro Heights, NS	B6L 1X1		
P.O. Box 1320	Truro, N.S.	B2N 5N2		
P.O. Box 1035	Dartmouth, NS	B2Y 1J3	Christa.Waters@dfo-mpo.gc.ca	902-426-9854
	Québec, Qc	G1K 7Y7	Mathieu.Bergeron@dfo-mpo.gc.ca	418-648-5883
	Corner Brook, NL	A2H 7K6	john.lubar@dfo-mpo.gc.ca	(709) 637-4333
PO Box 5667	St John's, NL	A1C 5X1	Jason.Simms@dfo-mpo.gc.ca	709-772-8014
CP 5030	Moncton, NB	E1C 9B6	pierre.mallet@dfo-mpo.gc.ca	506-851-7792
	Ottawa, On	K1A 0E6	Brian.Lester@dfo-mpo.gc.ca	613-990-0090
	Ottawa, On	K1A 0E6	Jessica.Kerwin@dfo-mpo.gc.ca	613-990-0102
	Corner Brook, NL	A2H 3E9	[redacted]	
	Benoit's Cove, NL	A0L 1A0		
	Corner Brook, NL	A2H 3E9		
	La Tabatière, Qc	G0G 1T0		
	Corner Brook, NL	A2H 6E6		
r	[redacted]			
			[redacted]	
nue, Suite 102	Charlottetown, PE	C1A 7Z5	managerpeifa@pei.eastlink.ca	(902) 566-4050
			[redacted]	
PO Box 98	Canso, NS	B0H 1H0	gcifa@gcifa.ns.ca	(902) 366-2266
	Barrington, NS	B0W 1E0	capebreeze@ns.aliantzinc.ca	(902) 768-2550
	Lower East Pubnico, I	B0W 2A0	swsein@istar.ca	(902) 762-2672
td	Lockeport NS		[redacted]	
	Musquodoboit Hbr, N	B0J 2L0		
45 Alderney Dr.,	Dartmouth, NS	B2Y 3Z6		
			fishpackers@ns.aliantzinc.ca	
	Hubbard's, NS	B0J 1T0	hilltophaven@ns.sympatico.ca	902-857-3619
	St George, NB	E5C 3S9	Brian.Boone@gnb.ca	(506) 755-4287
12e étage	Québec, Qc	G1R 4X6	Francois.Montminy-Munyan@mapaq.g	418 380-2100 (3770
Cornwallis Park	Cornwallis, NS	B0S 1H0	chandlea@gov.ns.ca	902-225-4983
ch RD	St. John's, NL	A1B 4J6	shelleydwyer@gov.nl.ca	709-729-3735
300, Des Ursuline	Rimouski, Qc	G5L 2Z9	[redacted]	
Bureau 340	Montréal, Qc	H2X 3V4		
166 Water St.	Woods Hole, MA	02543		
	Narragansett, RI	02882		
	Ottawa, On	K1A 0E6	Nicholas.Duprey@dfo-mpo.gc.ca	250-756-7139

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Fax

902.895.3844
902-895-8182

902-426-9683
418-649-8002
709 637-4445
709-772-3578
506-851-2435

709 785-5049
709 789-3355
709-785-2881

(418) 773-2626
(709) 634-8068

(506) 532-2487
(902) 386-3748

(902) 366-2679
(902) 768-2418
(902) 762-3427

902-845-2629
(902)-469-8294

902-857-2057
(506) 755-4794
(418) 380-2182

709-729-6082

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s.19(1)

Cormier, Mélanie

De: Regroupement des Pêcheurs Professionnels du Sud de la Gaspésie <rppsg@globetrotter.net>
Envoyé: 27 mars 2017 15:00
À: Rivierre, Antoine
Objet: RE: Comité consultatif du maquereau - 30 mars- Halifax / Atlantic mackerel advisory comitee - March 30th - Halifax

Bonjour M. Rivière,
Je vous confirme les 3 participants à la réunion sur le maquereau qui se tiendra à Halifax.

Au plaisir,

De : Rivierre, Antoine [mailto:Antoine.Rivierre@dfo-mpo.gc.ca]
Envoyé : 24 mars 2017 15:29
À : rppsg@globetrotter.net; appim@tlb.sympatico.ca; rppum@tlb.sympatico.ca; rppci@tlb.sympatico.ca; 'Inshore Fisherman Association (inshorefishermen@hotmail.com)';
Cc : Rowsell, Andrew; Simard, France; Lemelin, Dario; Hardy, Magalie; Morin, Mathieu; Richard, Josée; Boudreau, Suzie; Lester, Brian
Objet : Comité consultatif du maquereau - 30 mars- Halifax / Atlantic mackerel advisory comitee - March 30th - Halifax

English version follows

La prochaine rencontre du Comité consultatif du Maquereau Atlantique (CCMA) se tiendra à Halifax le 30 mars prochain.
Afin de faciliter l'organisation de cette rencontre, il est demandé aux représentants de l'industrie qui le souhaitent de confirmer leur intention de participer avant le mercredi 29 mars à midi.

Nous souhaitons également vous rappeler, conformément au plan de gestion intégrée de la pêche au maquereau bleu, que le nombre de membres par région administrative qui pourront s'assoir à la table est limité à trois représentants pour les flottilles côtières.

Pour toute information supplémentaire, vous pouvez contacter le conseiller régional, Antoine Rivierre par courriel antoine.rivierre@dfo-mpo.gc.ca ou par téléphone au 418 640-2636.

Merci

The next meeting of the Atlantic Mackerel Advisory Committee (AMAC) will be held in Halifax on March 30th.
In order to facilitate the organization of this meeting, industry representatives who wish to participate have to confirm their intention before noon on Wednesday, March 29.

We would like to remind you, in accordance with the Integrated Fisheries Management Plan for Atlantic mackerel, that the number of members per administrative region that can sit at the table is limited to three representatives for the inshore fleets.

For more information, please contact the Regional Advisor, Antoine Rivierre by e-mail antoine.rivierre@dfo-mpo.gc.ca or by phone at 418 640-2636.

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Thank you

Antoine Rivierre

Conseiller principal p. i.,
Espèces pélagiques, mammifères marins
Gestion de la ressource et des affaires autochtones / Pêches et Océans Canada / Gouvernement du Canada
Antoine.rivierre@dfo-mpo.gc.ca / Tél. : 418.640.2636

Senior Advisor a. i.,
Pelagic species, Marine Mammals
Resource Management and Aboriginal Affairs / Fisheries and Oceans Canada / Government of Canada
Antoine.rivierre@dfo-mpo.gc.ca / Tél. : 418.640.2636

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Canada

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Cormier, Mélanie

De: Cawthray, Jenness
Envoyé: 27 mars 2017 11:32
À: Waters, Christa; Rivierre, Antoine; Dunne, Erin; Mallet, Pierre; Gaudet, Mario
Objet: RE: List of participants for AMAC Table

Perfect. Let's do it Wednesday afternoon. Also I heard that there was a problem accessing the block of rooms. Did anyone else not get in to the block?
Thanks,
Jenness

From: Waters, Christa
Sent: March-27-17 11:18 AM
To: Cawthray, Jenness; Rivierre, Antoine; Dunne, Erin; Mallet, Pierre; Gaudet, Mario
Subject: RE: List of participants for AMAC Table

Hello,
The email from NHQ gave the industry until noon on the 29th to confirm with us. I will not be able to supply my list until that time.
Christa

From: Cawthray, Jenness
Sent: March 27, 2017 12:16 PM
To: Rivierre, Antoine; Dunne, Erin; Waters, Christa; Mallet, Pierre; Gaudet, Mario
Subject: List of participants for AMAC Table

Hi Everyone,
I will collect the lists in one shot on Tuesday afternoon from each instead of by individual confirmations if that's ok. I'm heading out soon and have a bunch of emails so I don't want to miss any confirmations.
Thanks!

Jenness Cawthray
Senior Fisheries and Aquaculture Management Officer |
Agent principal, Gestion des pêches et de l'aquaculture
Fisheries and Oceans | Pêches et océans
200 rue Kent Street - 13S013 Ottawa, ON, K1A 0E6
Jenness.Cawthray@dfo-mpo.gc.ca
Telephone | Téléphone (613) 998-1524
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Cormier, Mélanie

De: Morin, Mathieu
Envoyé: 27 mars 2017 15:35
À: Rivierre, Antoine
Objet: TR: Comité consultatif du maquereau - 30 mars- Halifax / Atlantic mackerel advisory comitee - March 30th - Halifax

Salut Antoine,

Je voulais t'aviser que j'ai transféré ce courriel aux destinataires suivants :

'rpphmcn' <rpphmcn@globetrotter.net>; [redacted]

Il s'agit des adresses qui figurent dans ma liste de distribution pour « toutes les espèces ».

Bonne fin de journée!

Mathieu

De : Morin, Mathieu
Envoyé : 27 mars 2017 15:32
Objet : TR: Comité consultatif du maquereau - 30 mars- Halifax / Atlantic mackerel advisory comitee - March 30th - Halifax

Bonjour (*english follows*),

Pour votre information, si vous avez l'intention de participer au comité consultatif sur le maquereau, veuillez s'il-vous-plaît prendre connaissance du courriel plus bas.

Veuillez prendre note que certains destinataires sont en copie cachée pour protéger leur courriel personnel.

Cordialement,

Hello,

For your information, if you want to attend to the mackerel advisory committee, please read the e-mail below.

Please note that some addressees are in blind-copy to protect their personal Email.

Best regards,

Mathieu Morin
Gestion de la ressource - Secteur Côte-Nord Resource management - North Shore Area
Pêches et océans Canada Fisheries and Oceans Canada

701 Boul Laure, bureau 203
Sept-Îles, Québec, G4R 1X8

701 Laure Blvd, Room 203
Sept-Îles, Québec, G4R 1X8

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Tél. : (418) 962-6314 ou 1-800-463-1729
Télécopieur : (418) 962-1044

Tel: (418) 962-6314 or 1-800-463-1729
Fax: (418) 962-1044

s.19(1)

De : Rivierre, Antoine
Envoyé : 24 mars 2017 15:29
À : rppsg@globetrotter.net; appim@tlb.sympatico.ca; rppum@tlb.sympatico.ca; rppci@tlb.sympatico.ca; 'Inshore Fisherman Association (inshorefishermen@hotmail.com)';
Cc : Rowsell, Andrew; Simard, France; Lemelin, Dario; Hardy, Magalie; Morin, Mathieu; Richard, Josée; Boudreau, Suzie; Lester, Brian
Objet : Comité consultatif du maquereau - 30 mars- Halifax / Atlantic mackerel advisory comitee - March 30th - Halifax

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Merci

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For more information, please contact the Regional Advisor, Antoine Rivierre by e-mail antoine.rivierre@dfo-mpo.gc.ca or by phone at 418 640-2636.

Thank you

Antoine Rivierre

Conseiller principal p. i.,
Espèces pélagiques, mammifères marins
Gestion de la ressource et des affaires autochtones / Pêches et Océans Canada / Gouvernement du Canada
Antoine.rivierre@dfo-mpo.gc.ca / Tél. : 418.640.2636

Senior Advisor a. i.,
Pelagic species, Marine Mammals
Resource Management and Aboriginal Affairs / Fisheries and Oceans Canada / Government of Canada
Antoine.rivierre@dfo-mpo.gc.ca / Tél. : 418.640.2636

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Patterson, Pauline

De: Rivierre, Antoine
Envoyé: March-27-17 4:17 PM
À: Gros-Louis, Denis; Lemire, Maryse
Cc: Boudreau, Suzie
Objet: TR: Contrôle de la pêche au maquereau bleu dans le golfe
Pièces jointes: Brian Lester, règlementation pêche au maquereau dans le golfe.doc; 2015_Monsieur Brian Lester.doc

Pour votre information.

La lettre est adressée à Brian Lester et au ministre Leblanc.
Je vous joins également la correspondance de 2015 dont [redacted] fait référence dans sa lettre.

Antoine Rivierre

Conseiller principal p. i.,
Espèces pélagiques, mammifères marins
Gestion de la ressource et des affaires autochtones / Pêches et Océans Canada / Gouvernement du Canada
Antoine.rivierre@dfo-mpo.gc.ca / Tél. : 418.640.2636

Senior Advisor a. i.,
Pelagic species, Marine Mammals
Resource Management and Aboriginal Affairs / Fisheries and Oceans Canada / Government of Canada
Antoine.rivierre@dfo-mpo.gc.ca / Tél. : 418.640.2636

Government of Canada Gouvernement du Canada

Canada

De : Regroupement des Pêcheurs Professionnels du Sud de la Gaspésie [mailto:rppsg@globetrotter.net]
Envoyé : March-27-17 3:52 PM
À : Lester, Brian
Cc : Rivierre, Antoine; Minister / Ministre (DFO/MPO)
Objet : Contrôle de la pêche au maquereau bleu dans le golfe

Bonjour,
Vous trouverez jointe une lettre concernant l'augmentation des mesures de contrôle de la pêche au maquereau bleu dans le golfe.
Au plaisir,
[redacted]

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Regroupement des pêcheurs professionnels du sud de la Gaspésie

REGROUPEMENT DES PÊCHEURS PROFESSIONNELS DU SUD DE LA GASPÉSIE

31-201, rue Commerciale O
Chandler (Québec) G0C 1K0
Tel: (418) 689-5055
Fax : (418) 689-5037
Courriel : rppsg@globetrotter.net

Chandler, le 27 mars 2017

Monsieur Brian Lester
Président, Comité consultatif du maquereau bleu
de l'Atlantique

Objet : Augmentation des mesures de contrôles de la pêche au maquereau dans le golfe.

Monsieur Lester,

Le 10 avril 2015, le RPPSG vous adressait une lettre à l'intérieur de laquelle il dénonçait l'absence totale de contrôle et de connaissances sur les captures réelles de maquereau ainsi que leur utilisation dans le golfe. Depuis, aucune mesure tangible n'a été mise en place par la direction des bureaux régionaux du MPO dans les provinces récalcitrantes pour corriger cette situation incompréhensible du point de vue de l'industrie de la capture.

Situation qui pénalise l'ensemble de l'industrie puisque l'évaluation biologique effectuée par les sciences est biaisée du fait qu'il n'y a, sauf pour deux régions, aucun débarquement dans les trois autres. Encore plus catastrophique, le ministère n'a même pas idée du nombre de pêcheurs dans le Sud du golfe et dans les Maritimes qui pêchent pour vendre du maquereau aux industriels, aux autres pêcheurs avoisinants ou le conserve tout bonnement pour leur utilisation personnelle.

Nous aurions cru, compte tenu du rôle crucial que joue ce poisson pélagique dans la capture des crustacés dans l'Est canadien et compte tenu du manque évident d'information pertinente sur cette espèce qui empêche d'établir avec certitude l'état réel de ce stock, que vous auriez migré depuis les deux dernières années vers une démarche proactive dans le dossier. Il est dommage

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de constater qu'après deux années rien n'a été fait pour améliorer les connaissances et impacts de la pêche sur le stock.

Monsieur Lester, il est temps que le ministère force et oblige les bureaux régionaux du golfe et des Maritimes à recueillir de l'information sur les captures du maquereau par :

- La mise en place d'un système d'appel en mer (Hall In) offrant une estimation de capture.
- La mise en place d'un journal de bord version papier obligatoire.
- Une déclaration officielle des prises vendues à l'usine, des ventes effectuées de pêcheur à pêcheur et des poissons conservés pour une utilisation personnelle.

Finalement, une limite quotidienne pour la pêche récréative devrait être aussi instaurée. Cette limite essentielle fixée à 15 poissons par personne devrait être publicisée par le MPO puisqu'énormément d'abus sont constatés lorsque l'affluence de touristes se fait sentir dans les régions côtières bordant le golfe en été. De plus, si nous n'obtenons pas ces informations pour gérer ce stock avec efficacité et prévisibilité, les pêcheries qui possèdent la certification MSC auront beaucoup de difficulté à maintenir leur certification. Nous ne croyons pas que cela serait de rendre service à toutes les flottilles de les voir perdre leur certification du fait que le ministère ne veut pas imposer ces déclarations minimales et que fatalement l'espèce maquereau soit citée comme une exploitation non contrôlée.

Veuillez agréer, Monsieur, l'expression de mes salutations distinguées.

[redacted]
Directeur général

c.c. Monsieur Antoine Rivière, gestion MPO-Québec
Honorable Dominic Leblanc, Ministre des pêches et Océans du Canada

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Regroupement des pêcheurs professionnels du sud de la Gaspésie

REGROUPEMENT DES PÊCHEURS PROFESSIONNELS DU SUD DE LA GASPÉSIE

31-201, rue Commerciale O
Chandler (Québec)
G0C 1K0
Tel: (418) 689-5055
Fax : (418) 689-5037
Mailto : rppsg@globetrotter.net

Chandler, le 3 avril 2015

Monsieur Brian Lester
Président, Comité consultatif du maquereau bleu
De l'Atlantique

Objet : Propositions concernant le TAC du maquereau bleu de l'atlantique et mesures additionnelles de gestion demandées pour la région des Maritimes.

Monsieur,

Le Regroupement des pêcheurs professionnels du sud de la Gaspésie n'a pu participer à l'appel conférence concernant la réunion du Comité consultatif du maquereau bleu de l'atlantique. Toutefois, compte tenu de la situation précaire de ce stock, nous recommandons un statu quo sur le contingent pour 2015 (10,000 tm.)

Cependant, nous avons de sérieuses réserves sur la volonté du ministère des Pêches et Océans Canada, région des Maritimes et du Golfe à imposer la déclaration obligatoire de capture pour la pêche commerciale et pour la pêche pour appât.

Contrairement au Québec, seuls les récépissés d'achat sont retournés par les usines de ces régions faisant en sorte que les ventes directes d'un pêcheur à un autre ne sont aucunement comptabilisées. Situation inacceptable dans la perspective actuelle.

Le MPO-Québec, qui démontre beaucoup de volonté à améliorer les données véritables de capture, propose d'imposer en 2015 un appel d'entrée pour chacun des pêcheurs pratiquant cette pêche dans la zone 16. Cette proposition sera refusé par ces derniers si les autres régions n'implantent pas les mesures de gestion déjà en vigueur dans la région du Québec. Il est difficile

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pour les sciences de confirmer un niveau d'exploitation raisonnable si les données sur l'effort de pêche ne sont pas connues.

L'autre préoccupation que nous avons comme flottille est celle de répondre à la condition imposée par la certification MSC dans la pêche au homard puisque cette dernière utilise une espèce (maquereau) qui semble en danger. Bientôt, toutes les flottilles du golfe (homardiers et crabiers de la zone 12 auront à développer des propositions visant la réduction du volume de maquereau bleu atlantique utilisé comme appât principal pour attirer les crustacés dans les casiers. Si nous ne réussissons pas à démontrer que ce stock est en meilleur santé qu'il ne le laisse croire, des coûts additionnels importants pour l'acquisition de maquereau étranger seront comptabilisés dans les dépenses annuelles de ces pêcheurs réduisant ainsi leur viabilité à moyen terme.

Votre mandat en tant que gestionnaire d'une ressource canadienne incombe d'établir des mesures de gestion serrées pour les espèces en forte diminution et éviter les désastres passés. Il serait excessivement important de comprendre la gravité de la situation actuelle.

Veuillez agréer, Monsieur, l'expression de nos sentiments distingués.

[redacted]
Directeur general

c. c. Monsieur Patrick Vincent, directeur de la gestion, MPO-Québec
Monsieur Andrew Maw, directeur de la gestion, MPO-Moncton

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s.21(1)(b)

Lavallée, Julie (IML)

De: Gilbert, Michel
Envoyé: 27 mars 2017 10:04
À: de Lafontaine, Yves
Objet: TR: Sommaire revue maquereau Atlantique / Atlantic mackerel assessment summary
Pièces jointes: projections.docx

Yves,

Pour ton info. Je vais essayer de parler à Jean L. aujourd'hui à ce sujet.

Michel G.

Michel Gilbert, M. Sc.
Directeur / Director
Direction des sciences pélagiques et écosystémiques / Pelagic and Ecosystem Science Branch
Direction régionale des Sciences / Regional Science Directorate
Pêches et Océans Canada / Fisheries and Oceans Canada
Institut Maurice-Lamontagne / Maurice Lamontagne Institute
850, Route de la Mer, C.P. 1000
Mont-Joli, Québec, Canada G5H 3Z4
Tél. / Tel. : (418) 775-0604
Téléc. / Fax : (418) 775-0718
Courriel / E-mail : michel.gilbert@dfo-mpo.gc.ca
http://www.qc.dfo-mpo.gc.ca/iml

Ma langue, une question de respect / My language, a matter of respect

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De : Doniol-Valcroze, Thomas
Envoyé : 27 mars 2017 09:45
À : Gilbert, Michel; Castonguay, Martin
Objet : RE: Sommaire revue maquereau Atlantique / Atlantic mackerel assessment summary

Martin, Michel,

Voici la table des projections/scenarios qui a été présentée à la gestion de manière préliminaire et que je comptais présenter à AMAC. Nous en avons discuté à deux reprises en appel conférence avec Brian Lester et les gestionnaires de chaque région au cours de la semaine dernière.

Thomas

De : Gilbert, Michel
Envoyé : 27 mars 2017 09:16
À : Castonguay, Martin

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s.21(1)(b)

Cc : Doniol-Valcroze, Thomas
Objet : TR: Sommaire revue maquereau Atlantique / Atlantic mackerel assessment summary

Martin,

Pour ton info et réflexion. Je vais parler à Jean aujourd'hui et il nous faudrait discuter par la suite des scénarios à présenter.

Je t'en reparle dès que j'ai parlé à Jean.

Michel G.

Michel Gilbert, M. Sc.
Directeur / Director
Direction des sciences pélagiques et écosystémiques / Pelagic and Ecosystem Science Branch
Direction régionale des Sciences / Regional Science Directorate
Pêches et Océans Canada / Fisheries and Oceans Canada
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850, Route de la Mer, C.P. 1000
Mont-Joli, Québec, Canada G5H 3Z4
Tél. / Tel. : (418) 775-0604
Téléc. / Fax : (418) 775-0718
Courriel / E-mail : michel.gilbert@dfo-mpo.gc.ca
http://www.qc.dfo-mpo.gc.ca/iml

Ma langue, une question de respect
My language, a matter of respect

De : de Lafontaine, Yves
Envoyé : 27 mars 2017 07:51
À : Gilbert, Michel
Objet : Tr: Sommaire revue maquereau Atlantique / Atlantic mackerel assessment summary

Michel
Peux-tu voir avec Jean pour les scénarios à présenter à AMAC. [redacted] Il faut amener un nombre minimum de scenarios.

Envoyé de mon smartphone BlackBerry 10 sur le réseau Bell.

De: Landry, Jean <Jean.Landry@dfo-mpo.gc.ca>
Envoyé: lundi 27 mars 2017 07:08
À: Burns, Adam; Jenkins, Randy; Lester, Brian
Cc: Krohn, Martha; Marentette, Julie; McPherson, Arran; de Lafontaine, Yves
Objet: TR: Sommaire revue maquereau Atlantique / Atlantic mackerel assessment summary

EFM colleagues,

Please take note of this information about mackerel that was sent to our ADM late last Friday. The first document includes the summary bullets of the last full assessment (approved by the RDS), for internal use in prep for AMAC. . I also put these bullets in the email below. You will note that bullet no 9 is a bit vague in terms of possible harvest

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scenarios. This is essentially because the analysis related to the various harvest scenarios were finalized once the peer review meeting was completed [redacted] However, multiple harvest scenarios are available with their associated probability of allowing the biomass to increase. Two of these scenarios are available in the second document (bullets in yellow – in French).

I am not sure about who will present what at AMAC but I am available to discuss with you and our regional science colleagues before AMAC if needed.

Jean

SUMMARY: ASSESSMENT OF ATLANTIC MACKEREL STOCK IN SUBAREA 3 AND 4

- Reported commercial landings of Atlantic mackerel in NAFO subareas 3 and 4 have decreased significantly in recent years. Between 2005 and 2013, they decreased from 54,621 t to 8,663 t before reaching 6,680 t in 2014 and 4,143 t in 2015. In 2016, the TAC of 8,000 t was reached.
- US landings (commercial and recreational) in NAFO subareas 5 and 6 also decreased significantly in recent years. Between 2005 and 2012, they decreased from 43,220 t to about 6,000 t and have remained at that level from 2013 to 2015.
- The issue of unrecorded catches has been investigated using a review of available data on bait needs and recreational fisheries, as well as an online survey aimed at mackerel fishermen. Both approaches show that total catches can reach 150% to 200% of declared catches, and that this ratio varies among regions and years.
- Following its increase in recent years, the length at 50% maturity has remained slightly above the minimum authorized length of 263 mm.
- The age structure in the fishery has contracted considerably since 2000 following the disappearance of fish older than 7 years. However, a slight improvement has been observed since 2013, with an increase of mackerel of ages 5 and 6.
- The abundance index from the egg survey in the southern Gulf reached its lowest level in 2012 (14,568 t), then slowly increased to 52,667 t in 2016. This value remains far below the abundance levels of over 750,000 t observed in the 1980s.
- A "censored" statistical catch-at-age model, calibrated with the abundance index from the egg survey and taking into account the uncertainty due to unrecorded catches, confirms that mackerel spawning biomass has declined due to high exploitation rates and reached its historical minimum in 2012 (20,000 t). According to the model, the 2016 spawning biomass was 40,000 t.
- The Limit Reference Point (LRP) for this stock is a proxy of $40\%B_{msy}$ based on $F_{40\%}$ derived from a yield-per-recruit analysis. According to the censored model, stock abundance in 2016 was about 40% of the 103,000 t LRP.
- Model projections were used to quantify the risks associated with different catch scenarios. Considering that the stock is in the critical zone, total catches (declared + unreported) should be low enough to facilitate recovery.
- It is particularly important to fill gaps in the biological sampling of the commercial catch in some areas, to accelerate compiling of landing statistics and to improve data collection on unreported catches.

Jean Landry
Director , Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Jean.Landry@dfo-mpo.gc.ca / Tel: 613-993-0029

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Directeur, Sciences halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Jean.Landry@dfo-mpo.gc.ca / Tél. : 613-993-0029

Government of Canada / Gouvernement du Canada

Canada

De : de Lafontaine, Yves
Envoyé : 24 mars 2017 16:26
À : Swerdfager, Trevor <Trevor.Swerdfager@dfo-mpo.gc.ca>
Cc : Landry, Jean <Jean.Landry@dfo-mpo.gc.ca>; McPherson, Arran <Arran.McPherson@dfo-mpo.gc.ca>; Gilbert, Michel <Michel.Gilbert@dfo-mpo.gc.ca>
Objet : Sommaire revue maquereau Atlantique / Atlantic mackerel assessment summary

Bonjour,

Please find in attachment the summary report of the last assessment meeting for Atlantic mackerel held in Mont-Joli on March 9th.

If questions, do not hesitate to contact me.

Yves de Lafontaine

Directeur, Institut Maurice Lamontagne
Directeur, Direction régionale des Sciences
Pêches et Océans Canada / Gouvernement du Canada
Yves.delafontaine@dfo-mpo.gc.ca Tél. : 418-775-0555 / tél. cell. : [redacted]

Director, Maurice Lamontagne Institute
Director, Sciences regional directorate
Fisheries and Oceans Canada / Government of Canada
Yves.delafontaine@dfo-mpo.gc.ca Tel : 418-775-0555 / Cel. : [redacted]

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Thomas, Tashina

From: Mallet, Pierre
Sent: March-27-17 8:16 AM
To: Lemay, Gaëlle; Thomas, Tashina
Cc: Hachey, Carole M; Lapierre, Daniel
Subject: RE: Mackerel

ok

From: Lemay, Gaëlle
Sent: March-27-17 8:16 AM
To: Mallet, Pierre; Thomas, Tashina
Cc: Hachey, Carole M; Lapierre, Daniel
Subject: RE: Mackerel

Svp prendre une décision sur le formulaire à utiliser.

From: Mallet, Pierre
Sent: March-27-17 8:15 AM
To: Lemay, Gaëlle; Thomas, Tashina
Cc: Hachey, Carole M; Lapierre, Daniel
Subject: RE: Mackerel

La réunion de AMAC est jeudi, nous allons discuter de reporting. Mais je pense que pour le Golfe on va de l'avant avec 25% monitoring et 100% hail.

Merci

From: Lemay, Gaëlle
Sent: March-27-17 8:12 AM
To: Thomas, Tashina
Cc: Hachey, Carole M; Lapierre, Daniel; Mallet, Pierre
Subject: RE: Mackerel

Wait for what?

From: Thomas, Tashina
Sent: March-24-17 4:36 PM
To: Lemay, Gaëlle; Hachey, Carole M; Lapierre, Daniel; Mallet, Pierre
Subject: RE: Mackerel

We have our meeting with the industry Thursday in Halifax. Pierre, should we wait?

From: Lemay, Gaëlle
Sent: March-24-17 3:27 PM
To: Hachey, Carole M; Thomas, Tashina; Lapierre, Daniel
Cc: Mallet, Pierre
Subject: RE: Mackerel

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Ps: I received an email from Island Weigh saying they would have like to know early next week as they will be training their observers. Can we make a decision on Monday?

From: Lemay, Gaëlle
Sent: March-24-17 3:26 PM
To: Hachey, Carole M; Thomas, Tashina; Lapierre, Daniel
Cc: Mallet, Pierre
Subject: RE: Mackerel

I don't care either way. Up to science and RM to decide!

From: Hachey, Carole M
Sent: March-24-17 2:21 PM
To: Thomas, Tashina; Lapierre, Daniel
Cc: Mallet, Pierre; Lemay, Gaëlle
Subject: RE: Mackerel

Here's my 2-cents worth on this.

You all need to decide exactly what information you need on the form. Once final, I have templates here that I can modify to create the form that will then be sent to DMCs. If the forms need a unique number, DMCs will have to send to their local print shop, so please take this into consideration so DMCs don't receive the form at the last minute.

Carole Hachey

Fisheries and Oceans – Gulf Region/Government of Canada
Carole.Hachey@dfo-mpo.gc.ca/Tel : 506-851-7729/Fax : 506-851-2504

Pêches et Océans Canada – Région du Golfe/Gouvernement du Canada
Carole.Hachey@dfo-mpo.gc.ca/Téléphone : 506-851-7729/Télécopieur : 506-851-2504

From: Thomas, Tashina
Sent: March-24-17 2:04 PM
To: Lapierre, Daniel
Cc: Mallet, Pierre; Lemay, Gaëlle; Hachey, Carole M
Subject: RE: Mackerel

Hi Daniel,
I thought we were going to create a new one as a few lines were different from the gillnets. I'm not sure who would be responsible to create those forms.
If not I would use "espèces".

Tashina

From: Lapierre, Daniel
Sent: March-23-17 11:27 AM
To: Thomas, Tashina
Cc: Mallet, Pierre
Subject: FW: Mackerel

Bonjour Tashina,

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Je ne me rappelle pas si vous aviez établi de façon définitive quel formulaire vous souhaitiez utiliser pour le maquereau, est-ce possible de confirmer.

Merci

Daniel

From: Island Weigh 95, Inc. [mailto:Islandweigh@hotmail.com]
Sent: 2017–March-23 10:32 AM
To: Lapierre, Daniel
Subject: Mackerel

Hi Daniel,

Can you please confirm ASAP what weighout forms we will be using for monitoring mackerel this coming year? Thanks.

President
Island Weigh 95, Inc.
PEI Dockside Monitoring Co.
P.O. Box 490
220 Harper Road
Tignish, PE
C0B 2B0
Ph: (902) 882-3186
Cell:
Website: islandweigh.com

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Thomas, Tashina

From: Waters, Christa
Sent: March-27-17 9:35 AM
To: Cawthray, Jenness; Lester, Brian
Cc: Rivierre, Antoine; Mallet, Pierre; Castonguay, Martin; Doniol-Valcroze, Thomas; Gaudet, Mario; Dunne, Erin; Thomas, Tashina
Subject: RE: Preliminary Mackerel Landings 2016

Categories: Green Category

Hello,
My landings include bycatch in the groundfish (and other) fisheries and personal bait licences.
Christa

From: Cawthray, Jenness
Sent: March 27, 2017 9:33 AM
To: Lester, Brian
Cc: Rivierre, Antoine; Mallet, Pierre; Castonguay, Martin; Doniol-Valcroze, Thomas; Waters, Christa; Gaudet, Mario; Dunne, Erin; Thomas, Tashina
Subject: Preliminary Mackerel Landings 2016

Hi Brian,

Please below preliminary date for total commercial mackerel landings for 2016.

NL: 4610t
Québec: 852t
Maritimes : 1203t
Gulf: 935t (as of March 14th, is expected to increase further)
Total: 7600t

Thank you,

Jenness Cawthray
Senior Fisheries and Aquaculture Management Officer |
Agent principal, Gestion des pêches et de l'aquaculture
Fisheries and Oceans | Pêches et océans
200 rue Kent Street - 13S013 Ottawa, ON, K1A 0E6
Jenness.Cawthray@dfo-mpo.gc.ca
Telephone | Téléphone (613) 998-1524
Facsimile | Télécopieur (613) 990-7051
Government of Canada | Gouvernement du Canada

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Dunne, Erin

From: Lester, Brian
Sent: March-27-17 5:10 PM
To: Dunne, Erin; Cawthray, Jenness
Cc: Browne, Ryan
Subject: Re: SPONL - Atlantic Mackerel Advisory Committee / Comité consultatif du maquereau de l'Atlantique

Ryan can you please check list and send invite to the SPONL if they have not already received. Add the email if it is not in the list already.

You can note that we are aware that [redacted] will participate and his request for a seat at the table.

Sent from my BlackBerry 10 smartphone on the Rogers network.

From: Dunne, Erin
Sent: Monday, March 27, 2017 3:13 PM
To: Cawthray, Jenness; Lester, Brian
Subject: SPONL - Atlantic Mackerel Advisory Committee / Comité consultatif du maquereau de l'Atlantique

Hi

SPONL represents 18 to 20 processors in the NL region, east and west coast. The executive director of SPONL moved to another position and the current director may not have received an invitation. SPONL are looking for their invitation to AMAC and understand that they have a seat the table. They are sending a representative to the meeting on March 30, [redacted]

Can you please confirm if an invitation was sent and if the group has a seat at the table.

Their email address is : sponl@bellaliant.net

Thanks Erin

From: Cawthray, Jenness
Sent: March-27-17 10:33 AM
To: Dunne, Erin
Subject: FW: Atlantic Mackerel Advisory Committee / Comité consultatif du maquereau de l'Atlantique

Here you go Erin. This was sent to us instead of you.
We can go through the collected list in Halifax!

From: Browne, Ryan
Sent: March-27-17 8:55 AM
To: Cawthray, Jenness
Subject: FW: Atlantic Mackerel Advisory Committee / Comité consultatif du maquereau de l'Atlantique

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From: s.19(1)
Sent: March-26-17 11:35 AM
To: Browne, Ryan
Subject: RE: Atlantic Mackerel Advisory Committee / Comité consultatif du maquereau de l'Atlantique

Ryan,

For NL Inshore it'll be - 3K Harvester - 4R Harvester and - myself.

FFAW | uniFOR
T: 709-634-0277
W: ffaw.nf.ca<http://ffaw.nf.ca>
PO Box 548, Corner Brook NL, A2H 6E6

From: Browne, Ryan [mailto:Ryan.Browne@dfo-mpo.gc.ca]
Sent: Friday, March 24, 2017 6:15 PM
To: Undisclosed recipients:
Subject: Atlantic Mackerel Advisory Committee / Comité consultatif du maquereau de l'Atlantique

SENT ON BEHALF OF BRIAN LESTER, CHAIR, ATLANTIC MACKEREL ADVISORY COMMITTEE (AMAC)
ENVOYÉ DE LA PART DE BRIAN LESTER, PRÉSIDENT, COMITÉ CONSULTATIF DE MAQUEREAU ATLANTIQUE (CCMA)

(Le français suit)

Hello all:

Given it is anticipated that there will be a large number of stakeholders at the Atlantic Mackerel Advisory Committee meeting on March 30th, participation at main table will be limited. In order to facilitate the proceeding for this meeting, we will follow the limits as defined in the Integrated Fisheries Management Plan for Atlantic Mackerel, as per below.

"...To ensure orderly meetings, the number of members per DFO Region who sit at the meeting table is limited to one representative per Aboriginal group or community, three for the inshore fleets, one for the large seiners, and two for the processing industry. In addition, there is one government representative per province. Other interested parties may attend as observers."

Integrated Fisheries Management Plan for Atlantic Mackerel:
http://www.dfo-mpo.gc.ca/fm-gp/peches-fisheries/ifmp-gmp/mackerel-atl-maquereau/mac-atl-maq-2007-eng.htm

Please identify to your DFO Regional Small Pelagics Advisor, by noon on March 29th, your interest to occupy one of the seats assigned for the Region at the AMAC table.

Christa Waters: Maritimes Region: Christa.Waters@dfo-mpo.gc.ca

Erin Dunn: Newfoundland Region: Erin.Dunne@dfo-mpo.gc.ca

Mario Gaudet: Gulf Region: Mario.Gaudet@dfo-mpo.gc.ca

Antoine Rivierre: Québec Region: Antoine.Rivierre@dfo-mpo.gc.ca

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Thank you.

Brian

Bonjour a tous,

Étant donné qu'il est prévu qu'il y aura un grand nombre d'intervenants lors de la réunion du Comité consultatif du maquereau de l'Atlantique le 30 mars, la participation à la table principale sera limitée. Afin de faciliter la procédure de cette réunion, nous suivrons les limites définies dans le Plan de gestion intégrée des pêches du maquereau de l'Atlantique, comme indiqué ci-dessous.

... Afin d'assurer le bon déroulement des réunions, on limite le nombre de membres par Région du MPO qui s'assoient à la table comme suit : un seul représentant par groupe autochtone ou communautaire, trois représentants des flottilles côtières, un représentant des grands senneurs et deux représentants de l'industrie de la transformation. De plus, il y a un représentant de chaque gouvernement provincial. D'autres parties intéressées peuvent assister aux réunions à titre d'observateur.

Plan de gestion intégrée de pêche pour le maquereau de l'Atlantique :
http://www.dfo-mpo.gc.ca/fm-gp/peches-fisheries/ifmp-gmp/mackerel-atl-maquereau/mac-atl-maq-2007-fra.htm

Veuillez indiquer à votre conseiller(e) régional(e) pour les petits poissons pélagiques du MPO, d'ici midi le 29 mars, votre intérêt à occuper l'un des sièges assignés à la région à la table du CCMA.

Christa Waters: Région des Maritimes: Christa.Waters@dfo-mpo.gc.ca

Erin Dunn: Région de Terre-Neuve-et-Labrador: Erin.Dunne@dfo-mpo.gc.ca

Mario Gaudet: Région du Golfe: Mario.Gaudet@dfo-mpo.gc.ca

Antoine Rivierre: Région du Québec: Antoine.Rivierre@dfo-mpo.gc.ca

Je vous remercie.

Brian

Ryan Browne
Administrative Assistant, Resource Management
Fisheries and Oceans Canada / Government of Canada
ryan.browne@dfo-mpo.gc.ca / Tel: 613-991-1833

Adjoint Administratif, Gestion intégrée des ressources
Pêches et Océans Canada / Gouvernement du Canada
ryan.browne@dfo-mpo.gc.ca / Tél. : 613-991-1833

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s.16(2)
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Berthier, Jacinta

From: Berthier, Jacinta
Sent: Monday, March 27, 2017 9:22 PM
To: Rossignol, Pauline; Wentzell, Doug
Cc: Lester, Brian
Subject: RE: Advisory Committee Meeting - Mackerel - This Friday?
Attachments: 2017_02_22_14_27_36.pdf

Hi,
Yes, there is an Atlantic Mackerel Advisory Committee meeting on the 30th. I don't have the agenda, but the invite for the meeting is attached. This committee is chaired nationally by Brian Lester. We have already fielded one question about an observer from NL, and in that case, Brian was the contact point. I would suggest the same approach in this case.

Thanks,
Jacinta

Jacinta Berthier

Director, Resource and Aboriginal Fisheries Management
Fisheries and Oceans Canada | Government of Canada
Jacinta.Berthier@dfo-mpo.gc.ca |Tel: 902 426-7681 | Cel: [redacted]

Directrice Gestion des ressources et pêches autochtones
Pêches et Océans Canada | Gouvernement du Canada
Jacinta.Berthier@dfo-mpo.gc.ca | Tél. : 902 426-7681 | Tél. cell. : [redacted]

If you have received this communication by mistake, please notify the sender immediately and delete the communication without printing, copying or forwarding it. Thank you.

Si vous avez reçu cette communication par erreur, veuillez en aviser l'expéditeur immédiatement et la supprimer sans l'imprimer, la copier, ou la faire suivre. Merci.

From: Rossignol, Pauline
Sent: Monday, March 27, 2017 5:45 PM
To: Wentzell, Doug <Doug.Wentzell@dfo-mpo.gc.ca>
Cc: Berthier, Jacinta <Jacinta.Berthier@dfo-mpo.gc.ca>
Subject: FW: Advisory Committee Meeting - Mackerel - This Friday?

Hi Doug, as per below, is there a Mackerel Advisory Committee meeting this week? If so, was [redacted] invited as an observer? Thanks

Pauline

From: Trudeau, Miriam
Sent: March-27-17 5:05 PM

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s.19(1)

To: Rossignol, Pauline
Subject: Advisory Committee Meeting - Mackerel - This Friday?

Salut Pauline,

Is there an Advisory Committee Meeting on Mackerel this Friday in Halifax? If so, do you know if [redacted] has been invited as an observer? He was told by DFO that he was always welcome to attend as an observer.

If it is the case, is it possible to have the location and time?

Miriam

Sent from my BlackBerry 10 smartphone on the Rogers network.

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Fisheries and Oceans Canada

Pêches et Océans Canada

TO: Atlantic Mackerel Advisory Committee /
AU: Comité consultatif du maquereau de l'Atlantique

Atlantic Mackerel Advisory Committee Meeting Invitation

A meeting of the Atlantic Mackerel Advisory Committee is scheduled for March 30, 2017, at the Delta Halifax, 1990 Barrington Street, Halifax, NS, in the Boardroom Baronet 123. (902-425-6700).

The meeting will begin at 09:00 and conclude at 16:00. A few rooms have been set aside for participants and will be released on March 7, 2017.

An agenda will be provided shortly.

Should you have any questions, please contact Jenness Cawthray (Jenness.Cawthray@dfo-mpo.gc.ca) (613-998-1524).

Invitation à la réunion du Comité consultatif du maquereau de l'Atlantique

Une réunion du Comité consultatif du maquereau de l'Atlantique est prévue pour le 30 mars, 2017 à l'hôtel Delta Halifax, 1990 rue Barrington, Halifax, N-E, dans la salle de conférence Baronet 123 (902-425-6700).

La réunion commencera à 09h00 et se terminera à 16h00. Quelques chambres ont été réservées pour les participants. Vous devez faire vos réservations d'ici au 7 mars pour en profiter du bloc.

Un ordre du jour sera bientôt disponible.

Si vous avez des questions, veuillez contacter Jenness Cawthray (Jenness.Cawthray@dfo-mpo.gc.ca) (613-998-1524).

Brian Lester
Chair/Président
Atlantic Mackerel Advisory Committee/Comité consultatif du maquereau de l'Atlantique

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Waters, Christa

From: capebreeze@ns.aliantzinc.ca
Sent: March-27-17 5:15 PM
To: [redacted] Waters, Christa
Cc: [redacted]
Subject: Re: AMAC

Ok with me.

[redacted]

From: [redacted]
Date: Mon, 27 Mar 2017 19:59:16 +0000
To: [redacted] Sea Crest Fisheries Ltd<seacrestfish@eastlink.ca>; [redacted] 'Waters, Christa'<Christa.Waters@dfo-mpo.gc.ca>; [redacted] <capebreeze@ns.aliantzinc.ca>
Cc: "[redacted]<herringsciencecoordinator@gmail.com>; [redacted]spans@ns.sympatico.ca>
Subject: RE: AMAC

Same here.

[redacted]
Comeau's Sea Foods Ltd.
Les produits de la mer Comeau ltee.
[redacted]
fax: 902.769.3594
www.comeauseafoods.com

From: [redacted]
Sent: March-27-17 4:45 PM
To: Sea Crest Fisheries Ltd.; [redacted] 'Waters, Christa'; [redacted]
Cc: [redacted]
Subject: Re: AMAC

Hi Christa, I agree the HSC should occupy a seat at the table.

[redacted]

Scotia Garden Seafood Inc.

[redacted]

From: [redacted] <seacrestfish@eastlink.ca>
Date: Monday, March 27, 2017 at 4:19 PM

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s.19(1)

To: [redacted], Christa Waters <Christa.Waters@dfo-mpo.gc.ca>, [redacted] <capebreeze@ns.aliantzinc.ca>, [redacted]
Cc: [redacted] <herringsciencecoordinator@gmail.com>, "spans@ns.sympatico.ca" <spans@ns.sympatico.ca>
Subject: RE: AMAC

I agree that it would be a good idea to have [redacted](HSC) participate.

Regards,
Brian

From: [redacted]
Sent: Monday, March 27, 2017 3:01 PM
To: Waters, Christa; [redacted] (seacrestfish@eastlink.ca); [redacted]
Cc: [redacted](spans@ns.sympatico.ca)
Subject: RE: AMAC

Hi Christa,

I will sit on the side [redacted]suggest you allocate the third seat [redacted] good to have the HSC at the table.

Cheers

[redacted]

From: Waters, Christa [mailto:Christa.Waters@dfo-mpo.gc.ca]
Sent: March-27-17 2:49 PM
To: [redacted](seacrestfish@eastlink.ca); [redacted]
Cc: [redacted]
Subject: AMAC

Hello,

There are three seats you folks can fill (including someone filling in for herring Coop). I have [redacted] in one each. [redacted] on the side. Who should fill the other one?

Christa

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s.19(1)

Waters, Christa

From: [redacted]
Sent: March-27-17 4:50 PM
To: Waters, Christa
Subject: NBWF member

Christa i'm not sure if we have a spot at there table, but our rep will be [redacted]

Thank you

[redacted]
New Brunswick Wildlife Fedration

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s.19(1)

Waters, Christa

From: Waters, Christa
Sent: March-27-17 2:56 PM
To: [redacted]
Subject: AMAC

Contacts: [redacted]

Hello [redacted]

Were you thinking of attending the AMAC? There are very limited number of seats and I would like to nail down who will get those seats (although others will be given a chance to speak too. Do you work with [redacted] at all?

There are only three seats for inshore fisheries (for all of Maritimes cape Breton to SW new Brunswick) and there are a bunch of people interested. I just want to make sure I have reasonable representation.

Thanks,
Christa

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s.19(1)

Waters, Christa

From: [redacted]
Sent: March-27-17 12:12 PM
To: Doniol-Valcroze, Thomas
Cc: Waters, Christa; Lester, Brian; Heather Grant
Subject: Further stock rebuilding information for AMAC

Hi Thomas,

Thank you for the very clear presentation at the Maritime Mackerel Advisory Committee meeting last week. In preparation for our positions at the AMAC meeting this week, we've been reviewing the information you presented and in particular the TAC projections and probability scenarios. We've been looking at the table against the precautionary approach advice from the Department and are unable to determine how to use this guidance based on the information provided.

For stocks in the critical zone, the recommended management actions state that, "Removals from all sources must be kept to the lowest possible level until the stock has cleared the Critical Zone. A rebuilding plan must be in place with the aim of having a high probability of the stock growing out of the Critical zone within a reasonable timeframe. A reasonable timeframe would normally represent the time for a cohort to recruit to the spawning biomass and then contribute to rebuilding the productive capacity of the stock. This period will vary among species. For many species, it will correspond to a period of 1.5 – 2 generations but it could be longer for long-lived species".

It would seem that we would have to know the probabilities going out 1.5-2 generations to ascertain which quota level would be best to rebuild the stock. Are you able to provide this? Furthermore, we are assuming that the "high probability" is referring to the risk categories as the "draft table defining risk tolerance designations (for use in the decision-making framework)" as there is no harvest control rule that has been pre-agreed for mackerel. Please let us know if there is other guidance on this that we have overlooked.

Any clarity you could provide would be very helpful as we go into the AMAC meeting this week.

Thanks,

[redacted]

--

[redacted]

2705 Fern Lane, Halifax, NS, B3K 4L3
tel. 902.446.4840 **cell** [redacted] **Skype:** [redacted]

ecologyaction.ca/marine

Ecology Action Centre

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s.19(1)

Waters, Christa

From: [redacted]
Sent: March-27-17 11:31 AM
To: Waters, Christa
Subject: AMAC

Good day Christa,

I would like to sit at the AMAC table.

Sorry I was unable to attend the Regional meeting in person last Thursday. While I spent 3 hours on the road in a blizzard, the Canso causeway was closed to traffic so I was turned back.

While we have no formal Mackerel group on Cape Breton Island, I am: a Licensed Fisherman for Mackerel, represent the CFA 23 Snow Crab & the LFA 30 Fishermen's Associations, sit on the Scotia-Fundy Rountable, [redacted] I am concerned about the management of this resource and believe I can be helpful in any discussions.

Thank you,

[redacted]
Cape Breton, NS

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s.19(1)

Waters, Christa

From: Waters, Christa
Sent: March-27-17 10:59 AM
To: [redacted]
Cc: [redacted]
Subject: RE: Membership on MarMac

Hello,

Yes you are right. Misunderstanding. We are looking for membership to the Maritimes committee as stated at the meeting on Thursday. Thanks.

The confusions on my part was that there was an email on Friday from Ottawa DFO about the Atlantic Wide Mackerel Advisory Committee (AMAC). I subsequently sent that out to all regional interests.

Thanks,

Christa

From: [redacted]
Sent: March 24, 2017 7:48 PM
To: Waters, Christa
Cc: [redacted]
Subject: Re: Membership on MarMac

Christa,

Perhaps we are misunderstanding each other. I wanted our association to be on the list for Maritime Mackerel commitee not the American Mackerel. I understand you discussed the terms of reference for the Maritime region Mackerel committee on Thursday and our membership would like us to have a seat at this committee.

Hope that clears this up?

[redacted]

On 24 March 2017 at 13:48, Waters, Christa <Christa.Waters@dfo-mpo.gc.ca> wrote:

Hello [redacted]

AMAC already has determined membership. Likely you can attend as an observer. It sounds like there are a lot of people looking to attend.

Christa

From: [redacted]
Sent: March 24, 2017 1:23 PM

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To: Waters, Christa
Cc: [redacted]
Subject: Membership on MarMac

s.19(1)

Hello Christa,

The Cape Breton Fish Harvesters Association would like to request a seat on the Maritime Region Mackerel Advisory Committee.

Thank you,

[redacted]

--

[redacted]

Cape Breton Fish Harvesters Association (formerly LFA27 Management Board)
RR #4 Baddeck
Nova Scotia, B0E 1B0
(902) 929-2757
www.capebretonfish.com

facebook: Cape Breton Lobster

twitter: cblobsters

--

[redacted]

Cape Breton Fish Harvesters Association (formerly LFA27 Management Board)
RR #4 Baddeck
Nova Scotia, B0E 1B0
(902) 929-2757
www.capebretonfish.com
facebook: Cape Breton Lobster
twitter: cblobsters

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Waters, Christa

From: Waters, Christa
Sent: March-27-17 10:39 AM
To: [redacted] Atlantic Herring Co-op / Full Bay Scallop; [redacted] (seacrestfish@eastlink.ca); [redacted] Cheney, Sarah; [redacted] Donna Larkin; Erika Perrier; [redacted] Fort Folly FN; [redacted] (gcifa@gcifa.ns.ca); [redacted] glooscapfirstnation; [redacted] North of Smokey; [redacted] <pocket.fisheries@ns.sympatico.ca>; [redacted] Singh, Rabindra; Surette, Dwayne E; [redacted] wfnfisheries@bellaliant.net
Subject: FW: Atlantic Mackerel Advisory Committee / Comité consultatif du maquereau de l'Atlantique

Hello,
Please see the message below regarding the Atlantic Mackerel Advisory Committee. I encourage you to discuss with your colleagues who will be best to sit at the table. In addition, you may be able to rotate your seat (sharing).
Christa

From: Browne, Ryan
Sent: March 24, 2017 5:45 PM
Subject: Atlantic Mackerel Advisory Committee / Comité consultatif du maquereau de l'Atlantique

SENT ON BEHALF OF BRIAN LESTER, CHAIR, ATLANTIC MACKEREL ADVISORY COMMITTEE (AMAC)
ENVOYÉ DE LA PART DE BRIAN LESTER, PRÉSIDENT, COMITÉ CONSULTATIF DE MAQUEREAU ATLANTIQUE (CCMA)

(Le français suit)

Hello all:

Given it is anticipated that there will be a large number of stakeholders at the Atlantic Mackerel Advisory Committee meeting on March 30th, participation at main table will be limited. In order to facilitate the proceeding for this meeting, we will follow the limits as defined in the Integrated Fisheries Management Plan for Atlantic Mackerel, as per below.

"...To ensure orderly meetings, the number of members per DFO Region who sit at the meeting table is limited to one representative per Aboriginal group or community, three for the inshore fleets, one for the large seiners, and two for

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the processing industry. In addition, there is one government representative per province. Other interested parties may attend as observers."

Integrated Fisheries Management Plan for Atlantic Mackerel:
http://www.dfo-mpo.gc.ca/fm-gp/peches-fisheries/ifmp-gmp/mackerel-atl-maquereau/mac-atl-maq-2007-eng.htm

Please identify to your DFO Regional Small Pelagics Advisor, by noon on March 29th, your interest to occupy one of the seats assigned for the Region at the AMAC table.

Christa Waters: Maritimes Region: Christa.Waters@dfo-mpo.gc.ca

Erin Dunn: Newfoundland Region: Erin.Dunne@dfo-mpo.gc.ca

Mario Gaudet: Gulf Region: Mario.Gaudet@dfo-mpo.gc.ca

Antoine Rivierre: Québec Region: Antoine.Rivierre@dfo-mpo.gc.ca

Thank you.

Brian

Bonjour a tous,

Étant donné qu'il est prévu qu'il y aura un grand nombre d'intervenants lors de la réunion du Comité consultatif du maquereau de l'Atlantique le 30 mars, la participation à la table principale sera limitée. Afin de faciliter la procédure de cette réunion, nous suivrons les limites définies dans le Plan de gestion intégrée des pêches du maquereau de l'Atlantique, comme indiqué ci-dessous.

... Afin d'assurer le bon déroulement des réunions, on limite le nombre de membres par Région du MPO qui s'assoient à la table comme suit : un seul représentant par groupe autochtone ou communautaire, trois représentants des flottilles côtières, un représentant des grands senneurs et deux représentants de l'industrie de la transformation. De plus, il y a un représentant de chaque gouvernement provincial. D'autres parties intéressées peuvent assister aux réunions à titre d'observateur.

Plan de gestion intégrée de pêche pour le maquereau de l'Atlantique :
http://www.dfo-mpo.gc.ca/fm-gp/peches-fisheries/ifmp-gmp/mackerel-atl-maquereau/mac-atl-maq-2007-fra.htm

Veuillez indiquer à votre conseiller(e) régional(e) pour les petits poissons pélagiques du MPO, d'ici midi le 29 mars, votre intérêt à occuper l'un des sièges assignés à la région à la table du CCMA.

Christa Waters: Région des Maritimes: Christa.Waters@dfo-mpo.gc.ca

Erin Dunn: Région de Terre-Neuve-et-Labrador: Erin.Dunne@dfo-mpo.gc.ca

Mario Gaudet: Région du Golfe: Mario.Gaudet@dfo-mpo.gc.ca

Antoine Rivierre: Région du Québec: Antoine.Rivierre@dfo-mpo.gc.ca

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Je vous remercie.

Brian

Ryan Browne

Administrative Assistant, Resource Management
Fisheries and Oceans Canada / Government of Canada
ryan.browne@dfo-mpo.gc.ca / Tel: 613-991-1833

Adjoint Administratif, Gestion intégrée des ressources
Pêches et Océans Canada / Gouvernement du Canada
ryan.browne@dfo-mpo.gc.ca / Tél. : 613-991-1833

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s.21(1)(b)

Waters, Christa

From: Waters, Christa
Sent: March-27-17 10:22 AM
To: MacDonald, Carl; Berthier, Jacinta
Cc: MacNeil, Nancy
Subject: Mackerel this week and the upcoming fishery

Hello,

This week there will be two mackerel meetings. One will be on Tuesday afternoon in Halifax. This one is specifically with Aboriginal groups. This is all afternoon and I suspect that the position will be united (at least for Maritimes Region) and strong. We need to protect mackerel for FSC purposes and there should be no commercial fishery. This was what we heard a few years ago. Some Aboriginal groups felt that their input was ignored last time. Hopefully this meeting will help to repair this relationship wrt the mackerel fishery.

Next, the AMAC is on Thursday all day in Halifax. It is chaired by Brian Lester. Following the advice we get from this meeting, NHQ will then proceed to write a BN for decision to the Minister. The timing is not working well for our fishery as mackerel can start showing up any time now (thankfully it is colder this year). However, we will likely start getting requests for licence conditions any minute.

Thanks,

Christa

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Boudreau, Carol-Ann

From: Landry, Jean
Sent: March-28-17 12:53 PM
To: McPherson, Arran
Subject: AMAC Deck
Attachments: mackerel_science_AMAC.PDF

No major concern to raise (after a quick check) justifying that we engage with the region. I have already asked my people not to send to Trevor as this would be too much info and our other deck covers the key aspects. However, please note the more detailed info about the European stock into this deck. Interesting.

Jean

Jean Landry

Director , Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Jean.Landry@dfo-mpo.gc.ca / Tel: 613-993-0029

Directeur, Sciences halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Jean.Landry@dfo-mpo.gc.ca / Tél. : 613-993-0029

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page 2985

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Krohn, Martha

From: Landry, Jean
Sent: March-28-17 11:58 AM
To: Marentette, Julie; Krohn, Martha
Subject: RE: Sommaire revue maquereau Atlantique / Atlantic mackerel assessment summary
Attachments: Atlantic Mackerel 101 draft March 23 2017.docx; Atlantic Mackerel Assessment Briefing Deck 170323.ppt Documents referred to can be found in TIF A027906

Follow Up Flag: Follow up
Flag Status: Flagged

Categories: Red Category

I just completed my review of the two other documents (the 101 and the deck). Only few comments in both. For the deck they are located in slides 1-14-16 and 19.

Martha: Unless you have issues or questions to discuss, I invite you to finalize all documents and to send to Trevor later today (with a cc to me and Arran). You could probably offer a briefing to Trevor as his earliest convenience (especially because of the TAC options and the issue of unreported catches). I also suggest that you add the bullets that Yves sent to Trevor then all the 5 documents will be in the same document.

Thanks so much to both of you.

Jean Landry

Director , Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Jean.Landry@dfo-mpo.gc.ca / Tel: 613-993-0029

Directeur, Sciences halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Jean.Landry@dfo-mpo.gc.ca / Tél. : 613-993-0029

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De : Landry, Jean
Envoyé : 28 mars 2017 08:50
À : Marentette, Julie <Julie.Marentette@dfo-mpo.gc.ca>; Krohn, Martha <Martha.Krohn@dfo-mpo.gc.ca>
Objet : RE: Sommaire revue maquereau Atlantique / Atlantic mackerel assessment summary

I have made few suggestions in two of the documents. Let me know if it makes sense. I will make a quick review of the two other documents later today (the deck and the 101) but I don't expect having a lot to add. Thanks so much Julie.

Jean Landry

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Director , Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Jean.Landry@dfo-mpo.gc.ca / Tel: 613-993-0029

Directeur, Sciences halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Jean.Landry@dfo-mpo.gc.ca / Tél. : 613-993-0029

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De : Marentette, Julie
Envoyé : 27 mars 2017 17:34
À : Landry, Jean <Jean.Landry@dfo-mpo.gc.ca>; Krohn, Martha <Martha.Krohn@dfo-mpo.gc.ca>
Objet : RE: Sommaire revue maquereau Atlantique / Atlantic mackerel assessment summary

Please find attached a .doc with an explanatory caption (and caveat that this is not part of the science advice!).

Best regards,

Julie Marentette, Ph.D.

Science Advisor, Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Julie.Marentette@dfo-mpo.gc.ca /Tel: 613-943-2098

Conseillère scientifique, Sciences des populations halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Julie.Marentette@dfo-mpo.gc.ca /Tél: 613-943-2098

From: Landry, Jean
Sent: March-27-17 5:13 PM
To: Marentette, Julie; Krohn, Martha
Subject: RE: Sommaire revue maquereau Atlantique / Atlantic mackerel assessment summary

Thanks Julie,

I would keep it outside of the deck and manage it as a separate doc. Could we add a footnote to clarify what this new column means?

Jean Landry

Director , Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Jean.Landry@dfo-mpo.gc.ca / Tel: 613-993-0029

Directeur, Sciences halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Jean.Landry@dfo-mpo.gc.ca / Tél. : 613-993-0029

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De : Marentette, Julie
Envoyé : 27 mars 2017 17:07
À : Landry, Jean <Jean.Landry@dfo-mpo.gc.ca>; Krohn, Martha <Martha.Krohn@dfo-mpo.gc.ca>
Objet : RE: Sommaire revue maquereau Atlantique / Atlantic mackerel assessment summary

Hello Jean,

Thank you for the update – and yes, that is the same projection table.

Here's an amended table, with a TAC column, on a slide that I can include in the briefing deck if you like?

Best regards,

Julie Marentette, Ph.D.

Science Advisor, Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Julie.Marentette@dfo-mpo.gc.ca /Tel: 613-943-2098

Conseillère scientifique, Sciences des populations halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Julie.Marentette@dfo-mpo.gc.ca /Tél: 613-943-2098

From: Landry, Jean
Sent: March-27-17 4:24 PM
To: Krohn, Martha
Cc: Marentette, Julie
Subject: TR: Sommaire revue maquereau Atlantique / Atlantic mackerel assessment summary

The projection table that Michel just shared with me (likely the same than the one Julie sent to us previously). Michel was relatively sure that Thomas will present this whole table at AMAC. He said he will confirm with Martin and Thomas. Michel also said that he will share the deck that Thomas will present with us before AMAC.

Jean Landry

Director , Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Jean.Landry@dfo-mpo.gc.ca / Tel: 613-993-0029

Directeur, Sciences halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Jean.Landry@dfo-mpo.gc.ca / Tél. : 613-993-0029

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De : Gilbert, Michel
Envoyé : 27 mars 2017 16:01
À : Landry, Jean <Jean.Landry@dfo-mpo.gc.ca>
Objet : TR: Sommaire revue maquereau Atlantique / Atlantic mackerel assessment summary

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s.21(1)(b)

Michel Gilbert, M. Sc.
Directeur / Director
Direction des sciences pélagiques et écosystémiques / Pelagic and Ecosystem Science Branch
Direction régionale des Sciences / Regional Science Directorate
Pêches et Océans Canada / Fisheries and Oceans Canada
Institut Maurice-Lamontagne / Maurice Lamontagne Institute
850, Route de la Mer, C.P. 1000
Mont-Joli, Québec, Canada G5H 3Z4
Tél. / Tel. : (418) 775-0604
Téléc. / Fax : (418) 775-0718
Courriel / E-mail : michel.gilbert@dfo-mpo.gc.ca
http://www.qc.dfo-mpo.gc.ca/iml

Ma langue, une question de respect
My language, a matter of respect

De : Doniol-Valcroze, Thomas
Envoyé : 27 mars 2017 09:45
À : Gilbert, Michel; Castonguay, Martin
Objet : RE: Sommaire revue maquereau Atlantique / Atlantic mackerel assessment summary

Martin, Michel,

Voici la table des projections/scenarios qui a été présentée à la gestion de manière préliminaire et que je comptais présenter à AMAC. Nous en avons discuté à deux reprises en appel conférence avec Brian Lester et les gestionnaires de chaque région au cours de la semaine dernière. [redacted]

Thomas

De : Gilbert, Michel
Envoyé : 27 mars 2017 09:16
À : Castonguay, Martin
Cc : Doniol-Valcroze, Thomas
Objet : TR: Sommaire revue maquereau Atlantique / Atlantic mackerel assessment summary

Martin,

Pour ton info et réflexion. Je vais parler à Jean aujourd'hui et il nous faudrait discuter par la suite des scénarios à présenter.

Je t'en reparle dès que j'ai parlé à Jean.

Michel G.

Michel Gilbert, M. Sc.
Directeur / Director
Direction des sciences pélagiques et écosystémiques / Pelagic and Ecosystem Science Branch

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s.21(1)(b)

Direction régionale des Sciences / Regional Science Directorate
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Mont-Joli, Québec, Canada G5H 3Z4
Tél. / Tel. : (418) 775-0604
Téléc. / Fax : (418) 775-0718
Courriel / E-mail : michel.gilbert@dfo-mpo.gc.ca
http://www.qc.dfo-mpo.gc.ca/iml

Ma langue, une question de respect — My language, a matter of respect

De : de Lafontaine, Yves
Envoyé : 27 mars 2017 07:51
À : Gilbert, Michel
Objet : Tr: Sommaire revue maquereau Atlantique / Atlantic mackerel assessment summary

Michel
Peux-tu voir avec Jean pour les scénarios à présenter à AMAC. [redacted] Il faut amener un nombre minimum de scenarios.

Envoyé de mon smartphone BlackBerry 10 sur le réseau Bell.

De: Landry, Jean <Jean.Landry@dfo-mpo.gc.ca>
Envoyé: lundi 27 mars 2017 07:08
À: Burns, Adam; Jenkins, Randy; Lester, Brian
Cc: Krohn, Martha; Marentette, Julie; McPherson, Arran; de Lafontaine, Yves
Objet: TR: Sommaire revue maquereau Atlantique / Atlantic mackerel assessment summary

EFM colleagues,

Please take note of this information about mackerel that was sent to our ADM late last Friday. The first document includes the summary bullets of the last full assessment (approved by the RDS), for internal use in prep for AMAC. . I also put these bullets in the email below. You will note that bullet no 9 is a bit vague in terms of possible harvest scenarios. This is essentially because the analysis related to the various harvest scenarios were finalized once the peer review meeting was completed [redacted] However, multiple harvest scenarios are available with their associated probability of allowing the biomass to increase. Two of these scenarios are available in the second document (bullets in yellow – in French).

I am not sure about who will present what at AMAC but I am available to discuss with you and our regional science colleagues before AMAC if needed.

Jean

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SUMMARY: ASSESSMENT OF ATLANTIC MACKEREL STOCK IN SUBAREA 3 AND 4

- Reported commercial landings of Atlantic mackerel in NAFO subareas 3 and 4 have decreased significantly in recent years. Between 2005 and 2013, they decreased from 54,621 t to 8,663 t before reaching 6,680 t in 2014 and 4,143 t in 2015. In 2016, the TAC of 8,000 t was reached.
- US landings (commercial and recreational) in NAFO subareas 5 and 6 also decreased significantly in recent years. Between 2005 and 2012, they decreased from 43,220 t to about 6,000 t and have remained at that level from 2013 to 2015.
- The issue of unrecorded catches has been investigated using a review of available data on bait needs and recreational fisheries, as well as an online survey aimed at mackerel fishermen. Both approaches show that total catches can reach 150% to 200% of declared catches, and that this ratio varies among regions and years.
- Following its increase in recent years, the length at 50% maturity has remained slightly above the minimum authorized length of 263 mm.
- The age structure in the fishery has contracted considerably since 2000 following the disappearance of fish older than 7 years. However, a slight improvement has been observed since 2013, with an increase of mackerel of ages 5 and 6.
- The abundance index from the egg survey in the southern Gulf reached its lowest level in 2012 (14,568 t), then slowly increased to 52,667 t in 2016. This value remains far below the abundance levels of over 750,000 t observed in the 1980s.
- A "censored" statistical catch-at-age model, calibrated with the abundance index from the egg survey and taking into account the uncertainty due to unrecorded catches, confirms that mackerel spawning biomass has declined due to high exploitation rates and reached its historical minimum in 2012 (20,000 t). According to the model, the 2016 spawning biomass was 40,000 t.
- The Limit Reference Point (LRP) for this stock is a proxy of $40\%B_{msy}$ based on $F_{40\%}$ derived from a yield-per-recruit analysis. According to the censored model, stock abundance in 2016 was about 40% of the 103,000 t LRP.
- Model projections were used to quantify the risks associated with different catch scenarios. Considering that the stock is in the critical zone, total catches (declared + unreported) should be low enough to facilitate recovery.
- It is particularly important to fill gaps in the biological sampling of the commercial catch in some areas, to accelerate compiling of landing statistics and to improve data collection on unreported catches.

Jean Landry
Director , Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Jean.Landry@dfo-mpo.gc.ca / Tel: 613-993-0029

Directeur, Sciences halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Jean.Landry@dfo-mpo.gc.ca / Tél. : 613-993-0029

Government of Canada / Gouvernement du Canada

Canada

De : de Lafontaine, Yves
Envoyé : 24 mars 2017 16:26
À : Swerdfager, Trevor <Trevor.Swerdfager@dfo-mpo.gc.ca>
Cc : Landry, Jean <Jean.Landry@dfo-mpo.gc.ca>; McPherson, Arran <Arran.McPherson@dfo-mpo.gc.ca>; Gilbert,

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s.16(2)

Michel <Michel.Gilbert@dfo-mpo.gc.ca>
Objet : Sommaire revue maquereau Atlantique / Atlantic mackerel assessment summary

Bonjour,

Please find in attachment the summary report of the last assessment meeting for Atlantic mackerel held in Mont-Joli on March 9th.

If questions, do not hesitate to contact me.

Yves de Lafontaine

Directeur, Institut Maurice Lamontagne
Directeur, Direction régionale des Sciences
Pêches et Océans Canada / Gouvernement du Canada
Yves.delafontaine@dfo-mpo.gc.ca Tél. : 418-775-0555 / tél. cell. : [redacted]

Director, Maurice Lamontagne Institute
Director, Sciences regional directorate
Fisheries and Oceans Canada / Government of Canada
Yves.delafontaine@dfo-mpo.gc.ca Tel : 418-775-0555 / Cel. : [redacted]

Ma langue, une question de respect
My language, a matter of respect

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Krohn, Martha

From: Marentette, Julie
Sent: March-28-17 9:55 AM
To: Landry, Jean; Krohn, Martha
Subject: RE: Sommaire revue maquereau Atlantique / Atlantic mackerel assessment summary
Attachments: mackerel_science_AMAC.PDF; Converting Mackerel Projections to TACs 170328 JMedits.docx; Atlantic Mackerel Fish Profile 2017-03028 JM edits.docx

Categories: Red Category

Good morning,

I made a tiny correction to each document (attached), still in track changes.

Also, **Thomas provided the deck that will be presented at AMAC** (attached, pdf). There is no slide explicitly laying out what the difference in declared/TAC versus total looks like (except for slide 26; the table is on slide 29). The key point that the higher the unreported catches are, the lower the TAC has to be (in order to fit a given total catch projection) can be made verbally, though. Do you have any concerns about the deck that you would like me to share with the region?

Best regards,

Julie Marentette, Ph.D.

Science Advisor, Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Julie.Marentette@dfo-mpo.gc.ca /Tel: 613-943-2098

Conseillère scientifique, Sciences des populations halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Julie.Marentette@dfo-mpo.gc.ca /Tél: 613-943-2098

From: Landry, Jean
Sent: March-28-17 8:50 AM
To: Marentette, Julie; Krohn, Martha
Subject: RE: Sommaire revue maquereau Atlantique / Atlantic mackerel assessment summary

I have made few suggestions in two of the documents. Let me know if it makes sense. I will make a quick review of the two other documents later today (the deck and the 101) but I don't expect having a lot to add. Thanks so much Julie.

Jean Landry

Director , Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Jean.Landry@dfo-mpo.gc.ca / Tel: 613-993-0029

Directeur, Sciences halieutiques

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Pêches et Océans Canada / Gouvernement du Canada
Jean.Landry@dfo-mpo.gc.ca / Tél. : 613-993-0029

Government of Canada Gouvernement du Canada

Canada

De : Marentette, Julie
Envoyé : 27 mars 2017 17:34
À : Landry, Jean <Jean.Landry@dfo-mpo.gc.ca>; Krohn, Martha <Martha.Krohn@dfo-mpo.gc.ca>
Objet : RE: Sommaire revue maquereau Atlantique / Atlantic mackerel assessment summary

Please find attached a .doc with an explanatory caption (and caveat that this is not part of the science advice!).

Best regards,

Julie Marentette, Ph.D.

Science Advisor, Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Julie.Marentette@dfo-mpo.gc.ca /Tel: 613-943-2098

Conseillère scientifique, Sciences des populations halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Julie.Marentette@dfo-mpo.gc.ca /Tél: 613-943-2098

From: Landry, Jean
Sent: March-27-17 5:13 PM
To: Marentette, Julie; Krohn, Martha
Subject: RE: Sommaire revue maquereau Atlantique / Atlantic mackerel assessment summary

Thanks Julie,

I would keep it outside of the deck and manage it as a separate doc. Could we add a footnote to clarify what this new column means?

Jean Landry

Director , Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Jean.Landry@dfo-mpo.gc.ca / Tel: 613-993-0029

Directeur, Sciences halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Jean.Landry@dfo-mpo.gc.ca / Tél. : 613-993-0029

Government of Canada Gouvernement du Canada

Canada

De : Marentette, Julie
Envoyé : 27 mars 2017 17:07

Document Released Under the Access to Information Act / Document divulgué en vertu de la Loi sur l'accès à l'information.

À : Landry, Jean <Jean.Landry@dfo-mpo.gc.ca>; Krohn, Martha <Martha.Krohn@dfo-mpo.gc.ca>
Objet : RE: Sommaire revue maquereau Atlantique / Atlantic mackerel assessment summary

Hello Jean,

Thank you for the update – and yes, that is the same projection table.

Here's an amended table, with a TAC column, on a slide that I can include in the briefing deck if you like?

Best regards,

Julie Marentette, Ph.D.

Science Advisor, Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Julie.Marentette@dfo-mpo.gc.ca /Tel: 613-943-2098

Conseillère scientifique, Sciences des populations halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Julie.Marentette@dfo-mpo.gc.ca /Tél: 613-943-2098

From: Landry, Jean
Sent: March-27-17 4:24 PM
To: Krohn, Martha
Cc: Marentette, Julie
Subject: TR: Sommaire revue maquereau Atlantique / Atlantic mackerel assessment summary

The projection table that Michel just shared with me (likely the same than the one Julie sent to us previously). Michel was relatively sure that Thomas will present this whole table at AMAC. He said he will confirm with Martin and Thomas. Michel also said that he will share the deck that Thomas will present with us before AMAC.

Jean Landry

Director , Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Jean.Landry@dfo-mpo.gc.ca / Tel: 613-993-0029

Directeur, Sciences halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Jean.Landry@dfo-mpo.gc.ca / Tél. : 613-993-0029

Government of Canada / Gouvernement du Canada

Canada

De : Gilbert, Michel
Envoyé : 27 mars 2017 16:01
À : Landry, Jean <Jean.Landry@dfo-mpo.gc.ca>
Objet : TR: Sommaire revue maquereau Atlantique / Atlantic mackerel assessment summary

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s.21(1)(b)

Michel Gilbert, M. Sc.
Directeur / Director
Direction des sciences pélagiques et écosystémiques / Pelagic and Ecosystem Science Branch
Direction régionale des Sciences / Regional Science Directorate
Pêches et Océans Canada / Fisheries and Oceans Canada
Institut Maurice-Lamontagne / Maurice Lamontagne Institute
850, Route de la Mer, C.P. 1000
Mont-Joli, Québec, Canada G5H 3Z4
Tél. / Tel. : (418) 775-0604
Téléc. / Fax : (418) 775-0718
Courriel / E-mail : michel.gilbert@dfo-mpo.gc.ca
http://www.qc.dfo-mpo.gc.ca/iml

Ma langue, une question de respect
My language, a matter of respect

De : Doniol-Valcroze, Thomas
Envoyé : 27 mars 2017 09:45
À : Gilbert, Michel; Castonguay, Martin
Objet : RE: Sommaire revue maquereau Atlantique / Atlantic mackerel assessment summary

Martin, Michel,

Voici la table des projections/scenarios qui a été présentée à la gestion de manière préliminaire et que je comptais présenter à AMAC. Nous en avons discuté à deux reprises en appel conférence avec Brian Lester et les gestionnaires de chaque région au cours de la semaine dernière.

Thomas

De : Gilbert, Michel
Envoyé : 27 mars 2017 09:16
À : Castonguay, Martin
Cc : Doniol-Valcroze, Thomas
Objet : TR: Sommaire revue maquereau Atlantique / Atlantic mackerel assessment summary

Martin,

Pour ton info et réflexion. Je vais parler à Jean aujourd'hui et il nous faudrait discuter par la suite des scénarios à présenter.

Je t'en reparle dès que j'ai parlé à Jean.

Michel G.

Michel Gilbert, M. Sc.
Directeur / Director
Direction des sciences pélagiques et écosystémiques / Pelagic and Ecosystem Science Branch
Direction régionale des Sciences / Regional Science Directorate
Pêches et Océans Canada / Fisheries and Oceans Canada
Institut Maurice-Lamontagne / Maurice Lamontagne Institute
850, Route de la Mer, C.P. 1000
Mont-Joli, Québec, Canada G5H 3Z4

Document Released Under the Access to Information Act / Document divulgué en vertu de la Loi sur l'accès à l'information.

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Téléc. / Fax : (418) 775-0718
Courriel / E-mail : michel.gilbert@dfo-mpo.gc.ca
http://www.qc.dfo-mpo.gc.ca/iml

Ma langue, une question de respect / My language, a matter of respect

De : de Lafontaine, Yves
Envoyé : 27 mars 2017 07:51
À : Gilbert, Michel
Objet : Tr: Sommaire revue maquereau Atlantique / Atlantic mackerel assessment summary

Michel
Peux-tu voir avec Jean pour les scénarios à présenter à AMAC. [redacted] Il faut amener un nombre minimum de scenarios.

Envoyé de mon smartphone BlackBerry 10 sur le réseau Bell.

De: Landry, Jean <Jean.Landry@dfo-mpo.gc.ca>
Envoyé: lundi 27 mars 2017 07:08
À: Burns, Adam; Jenkins, Randy; Lester, Brian
Cc: Krohn, Martha; Marentette, Julie; McPherson, Arran; de Lafontaine, Yves
Objet: TR: Sommaire revue maquereau Atlantique / Atlantic mackerel assessment summary

EFM colleagues,

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I am not sure about who will present what at AMAC but I am available to discuss with you and our regional science colleagues before AMAC if needed.

Jean

SUMMARY: ASSESSMENT OF ATLANTIC MACKEREL STOCK IN SUBAREA 3 AND 4

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- The issue of unrecorded catches has been investigated using a review of available data on bait needs and recreational fisheries, as well as an online survey aimed at mackerel fishermen. Both approaches show that total catches can reach 150% to 200% of declared catches, and that this ratio varies among regions and years.
- Following its increase in recent years, the length at 50% maturity has remained slightly above the minimum authorized length of 263 mm.
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- It is particularly important to fill gaps in the biological sampling of the commercial catch in some areas, to accelerate compiling of landing statistics and to improve data collection on unreported catches.

Jean Landry
Director , Fish Population Science
Fisheries and Oceans Canada / Government of Canada
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Directeur, Sciences halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Jean.Landry@dfo-mpo.gc.ca / Tél. : 613-993-0029

Government of Canada Gouvernement du Canada

Canada

De : de Lafontaine, Yves
Envoyé : 24 mars 2017 16:26
À : Swerdfager, Trevor <Trevor.Swerdfager@dfo-mpo.gc.ca>
Cc : Landry, Jean <Jean.Landry@dfo-mpo.gc.ca>; McPherson, Arran <Arran.McPherson@dfo-mpo.gc.ca>; Gilbert, Michel <Michel.Gilbert@dfo-mpo.gc.ca>
Objet : Sommaire revue maquereau Atlantique / Atlantic mackerel assessment summary

Bonjour,

Please find in attachment the summary report of the last assessment meeting for Atlantic mackerel held in Mont-Joli on March 9th.

If questions, do not hesitate to contact me.

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s.16(2)

Yves de Lafontaine

Directeur, Institut Maurice Lamontagne
Directeur, Direction régionale des Sciences
Pêches et Océans Canada / Gouvernement du Canada
Yves.delafontaine@dfo-mpo.gc.ca Tél. : 418-775-0555 / tél. cell. :

Director, Maurice Lamontagne Institute
Director, Sciences regional directorate
Fisheries and Oceans Canada / Government of Canada
Yves.delafontaine@dfo-mpo.gc.ca Tel : 418-775-0555 / Cel. :

Ma langue, une question de respect
My language, a matter of respect

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Pages 1541 to / à 1542

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pages 2191 to / à 2192

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s.19(1)

Bilmer, Angela

From: Butcher, Ashley
Sent: March-28-17 6:59 AM
To: Bilmer, Angela; Patrick, Lindsey
Cc: Malko, Carol
Subject: Fw: Letter to Honourable Minister Dominic Leblanc
Attachments: Letter to minister concerning AMAC meeting.docx; 2017_MARMAC_draft agenda_clw.docx

Hey Ang -

Can you do me a favour? Can you connect with MCCU to make sure we are on the approval list for this response?

Thanks!

Ashley

Sent from my BlackBerry 10 smartphone on the Rogers network.

From: Hopkins, Lillian <Lillian.Hopkins@dfo-mpo.gc.ca>
Sent: Monday, March 27, 2017 5:14 PM
To: Butcher, Ashley
Cc: Patrick, Lindsey
Subject: FW: Letter to Honourable Minister Dominic Leblanc

Ashley – for info, tracking and tasking, as needed.

L.

From: Blewett, Catherine
Sent: Monday, March 27, 2017 5:09 PM
To: Knight, Morley <Morley.Knight@dfo-mpo.gc.ca>; Richard, Jackey <Jackey.Richard@dfo-mpo.gc.ca>
Cc: Valkenier, Mary-Ellen <Mary-Ellen.Valkenier@dfo-mpo.gc.ca>; Hopkins, Lillian <Lillian.Hopkins@dfo-mpo.gc.ca>
Subject: Fw: Letter to Honourable Minister Dominic Leblanc

Hi there

Can I get an update on this file? Proposed response?

Thxs so much
C

Sent from my BlackBerry 10 smartphone on the Rogers network.

From: [redacted]

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Sent: Monday, March 27, 2017 5:39 PM
To: Dominic Leblanc
Cc: Blewett, Catherine
Subject: Letter to Honourable Minister Dominic Leblanc

No information has been removed or severed from this page

Pages 1545 to / à 1546
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pages 2008 to / à 2009

Page 1547
is a duplicate of
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page 2007

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Malko, Carol

From: Hopkins, Lillian
Sent: March-28-17 2:20 PM
To: Butcher, Ashley; French, Christopher
Cc: Malko, Carol
Subject: RE: Letter to Honourable Minister Dominic Leblanc

Thanks Ash and Chris – anything on the substance of the letter. Will this individual be invited?

L.

From: Butcher, Ashley
Sent: Tuesday, March 28, 2017 8:20 AM
To: Hopkins, Lillian <Lillian.Hopkins@dfo-mpo.gc.ca>
Subject: Fw: Letter to Honourable Minister Dominic Leblanc

I've asked Ang to touch base with MCCU to ensure were on the response to the letter. I'll get more details when I'm back but at least here's info re: TAC decision timing.

Ash

Sent from my BlackBerry 10 smartphone on the Rogers network.

From: French, Christopher <Christopher.French@dfo-mpo.gc.ca>
Sent: Tuesday, March 28, 2017 8:17 AM
To: Butcher, Ashley; Malko, Carol
Subject: FW: Letter to Honourable Minister Dominic Leblanc

Hello Ashley,

Response below.

Chris

Chris French
A/Senior Advisor to the ADM, Ecosystems and Fisheries Management
Conseiller principal intérimaire auprès du SMA, Gestion des écosystèmes et des pêches
Fisheries and Oceans Canada I Pêches et Océans Canada
christopher.french@dfo-mpo.gc.ca / Tel: 613-949-9028

From: Burns, Adam
Sent: 2017–March-28 7:59 AM
To: French, Christopher
Cc: Gibson, Andrea; Jenkins, Randy; Lester, Brian
Subject: Re: Letter to Honourable Minister Dominic Leblanc

Hi.

Document Released Under the Access to Information Act / Document divulgué en vertu de la Loi sur l'accès à l'information

The advisory is Thursday. We expect that the decision note would be in DMO about two weeks later. Typically we seek a min decision by very early May.

AB

Sent from my BlackBerry 10 smartphone on the Rogers network.

From: French, Christopher
Sent: Tuesday, March 28, 2017 7:51 AM
To: Burns, Adam
Cc: Gibson, Andrea
Subject: FW: Letter to Honourable Minister Dominic Leblanc

Hi Adam,

Request for info from DMO below.

Chris

Chris French
A/Senior Advisor to the ADM, Ecosystems and Fisheries Management
Conseiller principal intérimaire auprès du SMA, Gestion des écosystèmes et des pêches
Fisheries and Oceans Canada | Pêches et Océans Canada
christopher.french@dfo-mpo.gc.ca / Tel: 613-949-9028

From: Butcher, Ashley
Sent: 2017–March-28 7:02 AM
To: French, Christopher
Cc: Patrick, Lindsey; Malko, Carol; Bilmer, Angela; Richter, Julie
Subject: Fw: Letter to Honourable Minister Dominic Leblanc

Chris -

Could we get a quick update on Mackerel? When do we expect the decision note to be in DMO following the Advisory Committee meeting?

Thanks,

Ashley

Sent from my BlackBerry 10 smartphone on the Rogers network.

From: Hopkins, Lillian <Lillian.Hopkins@dfo-mpo.gc.ca>
Sent: Monday, March 27, 2017 5:14 PM
To: Butcher, Ashley
Cc: Patrick, Lindsey
Subject: FW: Letter to Honourable Minister Dominic Leblanc

Letter is in TIF A0281449 but is witheld under s. 19 (personal Information) of the Access to Information Act

Ashley – for info, tracking and tasking, as needed.

L

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s.19(1)

Minister / Ministre (DFO/MPO)

From: Schiavo, Nicholas
Sent: March-28-17 4:06 PM
To: Minister / Ministre (DFO/MPO)
Subject: FW: Response letter for the Minister: AMAC, [redacted]
Attachments: Letter to minister concerning AMAC meeting.docx

From: Bilmer, Angela
Sent: March-28-17 8:33 AM
To: Schiavo, Nicholas
Cc: Malko, Carol; Patrick, Lindsey; Butcher, Ashley; Cocking, Marie
Subject: Response letter for the Minister: AMAC, [redacted]

Good Morning Nicholas,
Can you please provide me with a GCCMS tracking number for the MCCU response, and ensure DMO is provided with a copy for DM sign-off prior to MINO submission?

Thanks!

Angela Bilmer
telephone // téléphone (613) 993-0509

Pages 1551 to / à 1552
are duplicates of
sont des duplicatas des
pages 2008 to / à 2009

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Cormier, Mélanie

De: APPIM <appim@tlb.sympatico.ca>
Envoyé: 28 mars 2017 14:04
À: Rivierre, Antoine
Objet: RE: Comité consultatif du maquereau - 30 mars- Halifax / Atlantic mackerel advisory comitee - March 30th - Halifax

Bonjour,

Pour la flotte côtière des Îles-de-la-Madeleine, monsieur [redacted] (APPIM-Alliance des pêcheurs professionnels du Québec) sera présent.

Merci.

[redacted]

De : Rivierre, Antoine [mailto:Antoine.Rivierre@dfo-mpo.gc.ca]
Envoyé : vendredi 24 mars 2017 16:29
À : rppsg@globetrotter.net; appim@tlb.sympatico.ca; rppum@tlb.sympatico.ca; rppci@tlb.sympatico.ca; 'Inshore Fisherman Association (inshorefishermen@hotmail.com)'; [redacted]
Cc : Rowsell, Andrew; Simard, France; Lemelin, Dario; Hardy, Magalie; Morin, Mathieu; Richard, Josée; Boudreau, Suzie; Lester, Brian
Objet : Comité consultatif du maquereau - 30 mars- Halifax / Atlantic mackerel advisory comitee - March 30th - Halifax

English version follows

La prochaine rencontre du Comité consultatif du Maquereau Atlantique (CCMA) se tiendra à Halifax le 30 mars prochain.
Afin de faciliter l'organisation de cette rencontre, il est demandé aux représentants de l'industrie qui le souhaitent de confirmer leur intention de participer avant le mercredi 29 mars à midi.

Nous souhaitons également vous rappeler, conformément au plan de gestion intégrée de la pêche au maquereau bleu, que le nombre de membres par région administrative qui pourront s'assoir à la table est limité à trois représentants pour les flottilles côtières.

Pour toute information supplémentaire, vous pouvez contacter le conseiller régional, Antoine Rivierre par courriel antoine.rivierre@dfo-mpo.gc.ca ou par téléphone au 418 640-2636.

Merci

The next meeting of the Atlantic Mackerel Advisory Committee (AMAC) will be held in Halifax on March 30th.
In order to facilitate the organization of this meeting, industry representatives who wish to participate have to confirm their intention before noon on Wednesday, March 29.

We would like to remind you, in accordance with the Integrated Fisheries Management Plan for Atlantic mackerel, that the number of members per administrative region that can sit at the table is limited to three representatives for the inshore fleets.

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For more information, please contact the Regional Advisor, Antoine Rivierre by e-mail antoine.rivierre@dfo-mpo.gc.ca or by phone at 418 640-2636.

Thank you

Antoine Rivierre

Conseiller principal p. i.,
Espèces pélagiques, mammifères marins
Gestion de la ressource et des affaires autochtones / Pêches et Océans Canada / Gouvernement du Canada
Antoine.rivierre@dfo-mpo.gc.ca / Tél. : 418.640.2636

Senior Advisor a. i.,
Pelagic species, Marine Mammals
Resource Management and Aboriginal Affairs / Fisheries and Oceans Canada / Government of Canada
Antoine.rivierre@dfo-mpo.gc.ca / Tél. : 418.640.2636

Government of Canada Gouvernement du Canada

Canada

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Lavallée, Julie (IML)

De: Gilbert, Michel
Envoyé: 28 mars 2017 13:21
À: Landry, Jean
Cc: Castonguay, Martin; de Lafontaine, Yves
Objet: TR: AMAC presentations?
Pièces jointes: mackerel_science_AMAC.pdf

Jean,

Tel que discuté hier par téléphone. J'ai parlé à Martin ce matin concernant le tableau de la diapo 29 et il doit parler à Thomas pour le modifier afin de mettre en valeur des scénarios de TAC excluant les prises non déclarées.

Michel G.

Michel Gilbert, M. Sc.
Directeur / Director
Direction des sciences pélagiques et écosystémiques / Pelagic and Ecosystem Science Branch
Direction régionale des Sciences / Regional Science Directorate
Pêches et Océans Canada / Fisheries and Oceans Canada
Institut Maurice-Lamontagne / Maurice Lamontagne Institute
850, Route de la Mer, C.P. 1000
Mont-Joli, Québec, Canada G5H 3Z4
Tél. / Tel. : (418) 775-0604
Téléc. / Fax : (418) 775-0718
Courriel / E-mail : michel.gilbert@dfo-mpo.gc.ca
http://www.qc.dfo-mpo.gc.ca/iml

Ma langue, une question de respect
My language, a matter of respect

De : Castonguay, Martin
Envoyé : 28 mars 2017 09:16
À : Gilbert, Michel; de Lafontaine, Yves
Objet : TR: AMAC presentations?

Voici la présentation que Thomas fera à AMAC jeudi.

Martin

De : Doniol-Valcroze, Thomas
Envoyé : 28 mars 2017 08:40
À : Marentette, Julie; Castonguay, Martin
Objet : RE: AMAC presentations?

Julie,

I believe I will be presenting most of the material, unless Martin wants to present the slides on genetic structure.

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Lavallée, Julie (IML)

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À : Marentette, Julie; Castonguay, Martin
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Julie,

I believe I will be presenting most of the material, unless Martin wants to present the slides on genetic structure.

By the way, here is the presentation for Thursday. I took the liberty of using/adapting a couple of the slides you had put together for your own briefing material because they were really clear.

Thomas

De : Marentette, Julie
Envoyé : 27 mars 2017 17:02
À : Doniol-Valcroze, Thomas; Castonguay, Martin
Objet : AMAC presentations?

Hello Thomas and Martin,

There is interest here in knowing who will be presenting what material at AMAC – could you clarify? Thanks!

I've also received approval to attend, so I will see you in Halifax later this week.

Best regards,

Julie Marentette, Ph.D.

Science Advisor, Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Julie.Marentette@dfo-mpo.gc.ca /Tel: 613-943-2098

Conseillère scientifique, Sciences des populations halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Julie.Marentette@dfo-mpo.gc.ca /Tél: 613-943-2098

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Lavallée, Julie (IML)

De: Castonguay, Martin
Envoyé: 28 mars 2017 10:28
À: Gilbert, Michel; de Lafontaine, Yves
Cc: Doniol-Valcroze, Thomas
Objet: TR: AMAC presentations?

Messieurs,

En réponse à vos préoccupations, voici une réponse de Thomas à Julie Marentette, conseillère pélagique dans l'équipe de Jean Landry.

Martin

De : Doniol-Valcroze, Thomas
Envoyé : 28 mars 2017 10:21
À : Marentette, Julie; Castonguay, Martin
Objet : RE: AMAC presentations?

Yes, I am planning to describe this very clearly. I presented this already to the Maritimes committee last week and it seems it was understood fairly well.

De : Marentette, Julie
Envoyé : 28 mars 2017 11:06
À : Castonguay, Martin; Doniol-Valcroze, Thomas
Objet : RE: AMAC presentations?

Hello Martin and Thomas,

Thanks very much for sharing your slides, and I'm happy my briefing deck was useful!

Re: your question, Martin - There is a great deal of interest in this stock in NCR at this time. In particular, there is interest/concern in how the difference between total catch and total allowable catch is going to be explained/presented to stakeholders and EFM, given that the ratio between declared and undeclared landings is something stakeholders will be commenting upon in the Thursday meeting and that will affect how EFM interprets the science advice. I know you have been in discussions with EFM and they've seen the table.

Since there's no slide that specifically states that the higher the unreported catches are, the lower the TAC would be to fit any particular projection scenario (i.e., as undeclared ↑, declared ↓) – I'm guessing it will be made clear verbally?

Let me know if you have any more questions. Thanks!

Best regards,

Julie Marentette, Ph.D.

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By the way, here is the presentation for Thursday. I took the liberty of using/adapting a couple of the slides you had put together for your own briefing material because they were really clear.

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Envoyé : 27 mars 2017 17:02
À : Doniol-Valcroze, Thomas; Castonguay, Martin
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Conseillère scientifique, Sciences des populations halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Julie.Marentette@dfo-mpo.gc.ca /Tél: 613-943-2098

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Thomas, Tashina

From: Doniol-Valcroze, Thomas
Sent: March-28-17 9:26 AM
To: Lester, Brian; Cawthray, Jenness
Cc: Rivierre, Antoine; Mallet, Pierre; Castonguay, Martin; Waters, Christa; Gaudet, Mario; Dunne, Erin; Thomas, Tashina; Browne, Ryan
Subject: RE: Preliminary Mackerel Landings 2016

I believe so.

De : Lester, Brian
Envoyé : 28 mars 2017 09:26
À : Doniol-Valcroze, Thomas; Cawthray, Jenness
Cc : Rivierre, Antoine; Mallet, Pierre; Castonguay, Martin; Waters, Christa; Gaudet, Mario; Dunne, Erin; Thomas, Tashina; Browne, Ryan
Objet : Re: Preliminary Mackerel Landings 2016

Thank you Thomas. Are you ok if we email this to AMAC members?

Sent from my BlackBerry 10 smartphone on the Rogers network.

From: Doniol-Valcroze, Thomas
Sent: Tuesday, March 28, 2017 9:19 AM
To: Cawthray, Jenness; Lester, Brian
Cc: Rivierre, Antoine; Mallet, Pierre; Castonguay, Martin; Waters, Christa; Gaudet, Mario; Dunne, Erin; Thomas, Tashina
Subject: RE: Preliminary Mackerel Landings 2016

Hi all,

Here are the AMAC slides in English and French, following regional approval of the advice summary yesterday.

Thomas

De : Cawthray, Jenness
Envoyé : 27 mars 2017 09:33
À : Lester, Brian
Cc : Rivierre, Antoine; Mallet, Pierre; Castonguay, Martin; Doniol-Valcroze, Thomas; Waters, Christa; Gaudet, Mario; Dunne, Erin; Thomas, Tashina
Objet : Preliminary Mackerel Landings 2016

Hi Brian,

Please below preliminary date for total commercial mackerel landings for 2016.

NL: 4610t
Québec: 852t
Maritimes : 1203t
Gulf: 935t (as of March 14th, is expected to increase further)
Total: 7600t

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Thank you,

Jenness Cawthray
Senior Fisheries and Aquaculture Management Officer |
Agent principal, Gestion des pêches et de l'aquaculture
Fisheries and Oceans | Pêches et océans
200 rue Kent Street - 13S013 Ottawa, ON, K1A 0E6
Jenness.Cawthray@dfo-mpo.gc.ca
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Government of Canada | Gouvernement du Canada

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Pages 1619 to / à 1647
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Bruxer, Shelby

From: Burns, Adam
Sent: March-28-17 8:23 AM
To: Lester, Brian; Jenkins, Randy
Subject: FW: Letter to Honourable Minister Dominic Leblanc
Attachments: Letter to minister concerning AMAC meeting.docx; 2017_MARMAC_draft agenda_clw.docx

FYI

From: French, Christopher
Sent: March 28, 2017 7:52 AM
To: Burns, Adam <Adam.Burns@dfo-mpo.gc.ca>
Cc: Gibson, Andrea <Andrea.Gibson@dfo-mpo.gc.ca>
Subject: FW: Letter to Honourable Minister Dominic Leblanc

Hi Adam,

Request for info from DMO below.

Chris

Chris French
A/Senior Advisor to the ADM, Ecosystems and Fisheries Management
Conseiller principal intérimaire auprès du SMA, Gestion des écosystèmes et des pêches
Fisheries and Oceans Canada I Pêches et Océans Canada
christopher.french@dfo-mpo.gc.ca / Tel: 613-949-9028

From: Butcher, Ashley
Sent: 2017–March-28 7:02 AM
To: French, Christopher
Cc: Patrick, Lindsey; Malko, Carol; Bilmer, Angela; Richter, Julie
Subject: Fw: Letter to Honourable Minister Dominic Leblanc

Chris -

Could we get a quick update on Mackerel? When do we expect the decision note to be in DMO following the Advisory Committee meeting?

Thanks,

Ashley

Sent from my BlackBerry 10 smartphone on the Rogers network.

From: Hopkins, Lillian <Lillian.Hopkins@dfo-mpo.gc.ca>
Sent: Monday, March 27, 2017 5:14 PM
To: Butcher, Ashley
Cc: Patrick, Lindsey

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Subject: FW: Letter to Honourable Minister Dominic Leblanc

Ashley – for info, tracking and tasking, as needed.

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Bruxer, Shelby

From: Burns, Adam
Sent: March-28-17 7:59 AM
To: French, Christopher
Cc: Gibson, Andrea; Jenkins, Randy; Lester, Brian
Subject: Re: Letter to Honourable Minister Dominic Leblanc

Hi.

The advisory is Thursday. We expect that the decision note would be in DMO about two weeks later. Typically we seek a min decision by very early May.

AB

Sent from my BlackBerry 10 smartphone on the Rogers network.

From: French, Christopher
Sent: Tuesday, March 28, 2017 7:51 AM
To: Burns, Adam
Cc: Gibson, Andrea
Subject: FW: Letter to Honourable Minister Dominic Leblanc

Hi Adam,

Request for info from DMO below.

Chris

Chris French
A/Senior Advisor to the ADM, Ecosystems and Fisheries Management
Conseiller principal intérimaire auprès du SMA, Gestion des écosystèmes et des pêches
Fisheries and Oceans Canada I Pêches et Océans Canada
christopher.french@dfo-mpo.gc.ca / Tel: 613-949-9028

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Cc: Patrick, Lindsey; Malko, Carol; Bilmer, Angela; Richter, Julie
Subject: Fw: Letter to Honourable Minister Dominic Leblanc

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To: Butcher, Ashley
Cc: Patrick, Lindsey
Subject: FW: Letter to Honourable Minister Dominic Leblanc

Ashley – for info, tracking and tasking, as needed.

L

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Date March 28, 2019

AMAC supplementary meeting

Opening remarks
- Running through agenda.

CESD did an audit. Mackerel on the plate. M in critical stock. Need to look at rebuilding plan.

[redacted] Critical range the stock was there last year. How has the situation changed.

Brian - did not have a LRP until this year. Majority did not support science + rebuilding WG was not established as there is way little [illegible]
[redacted] - first nations did buy into science

Science presentation (Thomas)

Presenting only Canadian waters.

Lower point

Mackerel are spawned in Canadian then go offshore to other locations.

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Estimate How much US is taking of Canadian mackerel (growing)

3k NE of NF

[redacted] NB AFC would be interested in collaborating w/ Science and gillnet samples

Slide 9

- Trajectory of catches have varied over time (2yrs bears)

Slide 11

- Signs that 2015 may have been a good recruitment.
  Hard for science to see recruitment until fish are 2 years. Fish do not reach sexual maturity before 2.

Slide 12 return of 4, 5, 6 year olds. More expanded age structure.

13 Interesting diff amongst regions
3K 2016 caught a lot of fish
Older fish disperse further. Farther away from the spawning site.

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4R strong signal of 1 year old fish

4T saw a better bit of recruitment

⇒ Signals are not strong enough to confirm high recruitment. Will know more in 2017.

14 Survey of egg prod'n on main spawning site
Survey eggs to calculate back to # of females.
- Survey happens every year.
- Larger the red dots the more abundant the eggs.
2015 & 2016 - egg prod'n are more speckled. More likely than not that they can find right conditions.

Question There are measurements of environment & production. Other fish stocks are examined

Get fecundity # of eggs per female.
Recruitment seems to be driven by environmental factors and availability of prey.

More eggs will translate into greater chance of survival and recruitment.

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[redacted] Potentially stock has chance of recruiting quite quickly?

Tom: Depends on if age class survives. Could be fished out quickly.

Long-term interest in letting cohorts grow.

[redacted] Have you noticed more predation.

Tom Not really. Don't have info. Large amt of predators that are eating eggs.

[redacted] What time of year does u do survey. Are you sure it is Mackerel

Tom Mid June. If survey was off results are thrown away. However, usually close to peak.
Mackerel eggs are sorted to identify.
- Classified by development stage.
- use imaging system
- have expertise. Can provide technique to U.S.

+ Tom will try to bring plots

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Abundance Index (eggs)

Lowest pt in 2012 then gradually has ↑ed.
- Slow ↑ but in right direction.

[redacted] Model assumed correlation b/t egg prod'n and abundance. Is this correct process.

Tom: Mass + weight of fish also enters. We assumed prod'n is # of fish, naturally.
- Does not include environmental factors of abundance index.

Sid/Ke/C NL believes there is more than 1 spawning activity.
- Did not find much spawning activity
- Additional survey in White Bay & Notre Dame Bay.
  - No signs of spawning occurred.
- Here from NL that maybe there is a 2nd spawning in Sept.

Mackerel pond seem to be post spawning not pre-spawning.

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Slide 17 - Looked at bait need for crab & lobster.
- Back of envelop calculations.
- Bait was larger than anticipated.

Slide 18 - Survey sent in 2016
Launched a few days after fishery closed & TAC Reached!

[redacted] Did you reach out to all abr organizations

Christine: Would have gone to above commercial licences.

Thomas will check & provide.

[redacted] Did your estimate bait ~~needs~~ received from (Japanese, etc).

Thom: Some included. Did not use as hard data put as an upper limit estimate

Slide 19. Is ff loading at sea a problem.

Thom - Discards are prob more of a problem. More so in years where there are small fish

[redacted] Ted monitoring

Brian: Looking at Ted monitoring (real time

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data for log books; hail, some DM.
Good in NL.
I share of undeclared is an issue.
Data on bait fishery has been poor.

Illegal sale - ice is unlimited year around.
Changes + options being considered.
Marine ice licence candidate - will allow you to get data on licences.
Ice is unknown but we are trying to change this.

Recognized that reporting has to be improved to provide science with best data.

: DM are they industry driven or conservation driven;

Randy DM is an industry choice & who they select DFO has developed a more robust audit of companies. Often individuals can be root cause of corrupt data.
More checks + balances in place - the improved quality.
Industry needs to embrace. More accurate investments to better predict stock status

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Undeclared could be ~~150~~ 150% → 200% of declared.

Lob + crab are telling ~~us~~ bait needs have not changed ~~much~~ much ~~of~~ over last 5-10 years.

Model has - abundance Index
- Age structure
- declared landings.

Be careful about uncertainty in model.

Natural mortality - ~~Does not estimate~~

Mom → Does not estimate. It is very diff to estimate natural mortality in the same model as fishing mortality.

We don't have good data on predation.

Stock Status
- Gives more realistic projections
- Real tell it that we are taking more fish than in previous model.

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We are currently 70% of BMSY.
Safe to say we are 40-50% of MSY.
- Need a strong recruitment event to rebuild stock.

A strong recruitment event to reach projections or LRP faster.
Because it takes 2 years we don't see strong recruitment right.
- have to see it in egg survey next year.
- or size of # of small fish

Is there concern about wiping out 2015 stock to soon.

We decided w/ mass ⇒ weight for quotas.
Higher mass could take away more fish if there are small.

Egg Small fish protocol is that if there are allot of small fish you move to another place. Do small fish congregate?
Thom: Could be true.
- Discards due to illegal size.

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[redacted] Total removals of median 12000t. If 6000t is undeclared then 6000t would be left for commercial.

Tom: Committee could determine if they are more or less conservative!

Randy: Size limit ↑ed to permit sexual maturity so more offspring.

[redacted] Would there be a benefit to ↑ size further to 60% of SOM.

Thomas. If you 50 SOM is generally used. If you keep ↑ size limit you will pr more fish.

[redacted] ~~Tested~~ If value is put in what industry says we would not be in this predicament.

With landings at low levels in past few year have shown signs of recovery.

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Licences that were issued for Bait.
of people ~~than~~ used handline for tuna
Less than 10 ton tuna caught

Model estimates about 14,000 t were catches in 2016. Declared & Undeclared.

Advice 2014 800 t. Absence was calculated difference. Said less than 0000t in pop. Did not make sense

Thom: Norad 99 age class started to build pop then it stopped.
- We want to make sure now we don't do something to have it crash.

Brian: Rebuilding Plan working group would work on +ve trajectory. Be above LRP.

[redacted]: Deep in the cuke zone were comments from last meeting

[redacted] We are not even at half of critical zone.

In general if you look at landings they follow this same trajectory.

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[redacted] Cellulosby values, FSC as well as commercial
- With any other species we would be at the no exploitation zone.

Christa: What is a common exploitation rate for a small pelagic stock that we are trying to rebuild

Thom: Pelagic stock is quite unpredicatable We have seen some pelagic stock rebound from their lowest level. We are trying to rebuild on strong recruitment.
- Don't think there is an emagining #.
- We are in critical zone. We are not in sustainable place. Would not have high exploitation rates.

[redacted] What was diff about last fall that caused TAC to be reached, early on.

Lester 3 Introduction of 3K fishery was the thing last year. We had not seen since 2010. Small seiner fleet could catch fish quickly

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Thom: Fishermen said they could have continued to keep fishing in 3K.

Brian: Jahrig view.
Would never thought he would send recommendation on 24K ⇒ 30K

A few years ago was ~~3K~~ THE was 10,000t when science recommended 8000t.
Are we going to do the same. We followed US.
THE was much lower than US.
~~Cod~~ 10,000t THE, only about 6,000t was caught.
- Everyone seemed surprised when 8000t was actually fished this year.

↳ Will be up to Min to decide

Is guessing harvest will be 8000t based on past. Would like to follow suit with science recommendation
- Best interest of stock in consideration not fishers.
: in agreement.
Process is broken. Why is advice not followed.

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[redacted]: Past value in Science

Lester: Science was difficult in 2014. There was lots of debate around the Table. Alot of work has been done to improve model.
If you do x this is the likelihood to stock ~~Ross~~ is increasing

[redacted] Everyone values science
Limitations can be reduced by collecting better recommendation
~~Examples~~
- Part of the recovery plan would be investing in science?

Lester: Will continue on path w/ better data assessment
Has been increased in investment to DFO pelagics. ~~The~~ Science ~~diffuse~~ divided monitoring pelagics into extra person
- Large portion of work done by Post doc. 2 other Post doc are working on link bt environment + ~~Aggregation~~ recruitment. ~~for~~ Boost in science funding

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[redacted] Would like to participate in stock + framework assessments. Tried to arrange ~~to~~ remote call in. Was not possible. Put on table that option per call-in ~~that~~ would be beneficial going forward.

- Can you explain how U.S. TAC has some influence on our TAC.
Can you commit to recom of TAC for next 3 years.

Depends is goal to rebuild, is goal to balance catches and rebuild them

- Once you are not in critical zone it is possible
~~TAC~~ Now it depends on how fast you want to get above critical late.
- Rebuilding plan will be by 2019 forward. 2 year approach.
- how much fishing opportunity are you willing to give up to get out of critical range.

US current TAC is 9000 ~~tons~~. Consider US TAC is closer to commercial catches than ours.

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- On Thursday - Make it clear that despite what US is doing we should not base decision on them.

- Any decision extends beyond mackerel pop. MSC ~~herr~~ lobster, etc a consideration. Alot to stay to manage ~~ANMPA~~ etc to even catch fish.
- Have a secondary meeting w/ Ab to discuss big announcements

- If DFO mgmt is going to be able to reduce amt of undeclare catches. (~60,000t) How are we getting it to declared.

- them If bait need are undeclared and they become better reported then there will be a shift to declared.
- Bait needs should be relatively impt.

- Need an exploitation rate that would ~~be~~ get us to constant rate.

- ~~Re~~ Predation - ecosystem approach to mgmt. In U.S. under this approach.

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Thom: I think A good candidate for ecosystem approach
He doesn't see seals as a main factor.
It could be more competition among other pelagics.

[redacted] Concern with how much you say is undeclared.

[redacted] Not sure how many scenario are conservative enough. When we talk about PA not sure if dept sees value to communities. Urge to be cautious.
Mackerel is cultural, commercial & rights based to the ab communities.
Ten of thousands of ab fishers are impacted. Now in critical zones because of how they are managed.

Lester: Ab could make requirements that it is FSC, rec, bait or no bait.
MSC has said to reduce dependency on bait for lobster.
What are ab groups wanting?
What would you like to put forward.
FSC weight would not be taken away

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[redacted] It's not always about money. There are tons of reach licences that can't be used.
- Would like the stock to ~~[illegible]~~ come back to a level where it can ~~[illegible]~~ be fished.
- It should be rebuilt as fast as possible.

[redacted] Less seining and more handlining could be a direction.

Lester. Current 60/40 split... in IFMP.
- We need to ~~speak~~ about 60/40 split

On Thursday.
- ~~If~~ there is a freeze on current licence levels. ~~[illegible]~~
Ab can request access.
- ~~[illegible]~~

[redacted] Make it sustainable

Lester Does membership of sens make sense

[redacted] With this assess it reduces mkt price of makerel

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Big changes:

[redacted] Can present at this table.

[redacted] more of a gathering information and will send out to ~~members~~.

Any changes in mgmt and regulation need to go through duty to consult. (change in access, freeze/closing/fishery).

- Still concerned about large TAC for a fishery that is critical.

[redacted] Do we know how many licence are being used.

Lastly: ~~Do we know~~ We know how many active licences? ~~$~~ Collect #'s on participation.

Table: freeze

Exploratory reviewed on annual basis

~~Check~~ * Check if fishery is "limited entry" in * Region fishery.

↳ Could be see an influx of application for licence holders.

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[redacted] What is breakdown by gear type.

Why exploratory

Brian thinks – time when marked was not used fully by inshore. Never been an issue.

Full TAC reached this year so ~~reg~~ likely needs to be re-evaluated

Thomas: Checking what year seiners have started

MK Licence.

- change reg put in freeg limit
- Part of MK

[redacted] What is gear? Handline vs hand crank.

[redacted] Concern about labelling about gear types w/o considering ~~has~~ what is more humane.

Handcracks more of what fishers ~~to~~ want to use. Gets fish into boat faster. No disadvantages

Bait – Supposedly ~~this~~ illegal to have more than 5 hooks.

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Gear is also based on region

- In terms of bait licences gear types need to be taken into consideration

Alot of guys want to use handcrank not gill net.

- Consistency region to region w/ rec licence

Will be alot of work to implement a marine rec fish licence.
- To regulate, to monitor
- fee - You have to do a user fee act.
- need to have a better understanding of what is coming out of the water.

Feel like group will be in a minority with requesting conservation of the stock.

Can't be happy at 40-50% of LRP.

PA / Framework Rebuilding Plan.
- response to audit. Mackerel is one.
- determine acceptable levels of F.

Goal - possible continued trajectory of this fishery

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Good to have rebuilding ~~plan~~ plan advice available for 2019.

IFMP = 10 yrs ~~old~~ old.
- option WG
- or DFO write and circulate for comment

* DFO will write / update / take to AMA

Brian drafting TOR tomorrow
- Most of work would occur next fall into the winter.

~~From~~ Will take note of views and it will be brought forward to govt.

[redacted] If mackerel goes so does Tuna

[redacted] - Ensure correspondence to FN Chiefs of NS
Not ~~maj~~ majority rules. FN rights + interests must be taken into consideration

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March 28

Mackerel Assessment

first meeting since 2014; first time we've had to close the fishery in season. Want to discuss access & reporting; looking for advice on a two year TAC; minimum size precautionary approach working group looking for 8-10 people representative of the fishery. CESD (Commis of the Environment & Sustainable Development) need to update the plan; see fishery harms; exploratory fishe

didn't have a LRP before in the plan, we have that now & we are still in the Critical Zone; now with new science people are more accepting of the science & the rebuilding plan.

- last assessment in 2014, 2016 assessment delayed until 2017

Dec 2016 - egg data review

Jan 2017 - reviewed the new model

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March 2017 stock assessment

- landings
- egg survey
- biological data

Personal Notes of Erin Dunne from Mackerel Assessment March 28

Erin Dunne

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2014 review of the data

Canada & US biomass declining

egg survey down

less & less young fish

fishing mortality increasing

Stock Status: Critical !

stock status under LRP dispite using 3 different models

Science advice was an 800t TAC

model produced an unrealistic biomass

did not take into account all the undeclared catches.

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Undeland catches

legal fishery base for pu recreational fishing, unfilled logs; differenc between regio ex. fishers or buyers who repor catches

- this creates a major problem when verifying data

Distribution & Migration

single transboundary stock

two spawning activity

SW Gulf & in the US mackerel are caught in the US winter. fishery

Greenland has its own TAC

the NW atlantic population is genetically different from European fish. It is conceivable that European fish could come to 2J + 3K. Harvesters in 3K saw young of the year fish. need to get the samples + analyze them.

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3 participation from industry - Yes
great participation (gully pencil mark.
industry realize in that part of NL it is important to get the assistance & samples.

Commercial Catches
decreased between 2006-2015
54,621 t to 8663 t

US landings decreased as well

L50 length at 50% maturity
the length steadily increased
2014 science advice was to increase the legal limit
The L50 is stable @ 263cm

mackerel like most pelagic fish have boom years.
The 99 didn't grow as old as the 82 class. less and less old fish
since then there have been a couple of recruitment pulses.
Industry reported lots of young fish during 2016

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Small fish are not caught in the comm fishery. In 2013 the structure was skewed & unhealth

Older fish disperse further and may travel farther North to NL western side
2016 length frequency

Egg Survey - no way to survey the entire adult pop of fish, we have relied on the survey of egg production. We can back calculate the # of females it took to produce that # of eggs Same gud for 25 years, very long time series & stable. This survey occurs every year

Put more effort into the long term chances of these young fish.

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Surveys aren't designed to sample predation. Panels are impacted by the mackerel stock going down.

Survey done in June every year
sort the eggs (herring, mackerel ...)
& then stage the age to know how old. The US came here to learn how to do our sampling of eggs.

Abundance index
lowest here in 2012
then slowly increased; since then the highest here was 2016
its very slow unless we hit a boom year it will be slow & steady.

NL industry said there was a spawning site & another area this was never found to be.

WBNDB - went in June too cold
in July conditions OK but no activity (this was done in 2015/16)
no significant spawning activity
now they say there are fall spawners.

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Undeclared Catches

We know its not less than what is declard but we can't set too high to be unrealistic.

How much bait does a harvester need? There was a large portion of Japanese markets used per bait in 2016.

Discards - probably a problem and very little info (should we have observer monitoring) Southern Surf still using purchase slips. (Logs Hauls & DMP required in marketing)

Illegal Sale - rec fishery is unlimited catch

Commercial reporting needs to improve in 2017. Rec fishery will come through a reg change and its 18+ months out.

DMP - not perfect, and there is a cost but its use is beneficial to industry & science & RM

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declared to undeclared catches

In 2005 total comm catches were 50,000 t if we add the bait it could as much as 10000t it can be significant.

Stock status estimated by the model - declining due to over exploitation the new model shows (with undeclare catch included) the biomass was higher because we took more fish LRP 103,00t

we are at 40% of LRP (40-50%)

how quickly can we rebound?

pretty quickly with a strong recruitment event.

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We don't produce far into the future 3 years. Because the stock is in the critical zone management asked us for projections

Each line is a different scenario. median line is 77000 t line probability of reaching LRP of 103000

We could have a strong recruitment event to help with rebuilding

We have been catching smaller fish because there aren't as many big fish

Small fish protocol

Should we have a minimum size?

Is there a benefit to fishing across the stock size.?

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Also if small fish are caught if not kept they are wasted and many die.

#s vs mass

value of the size limits

its better for rebuilding populations to have size limits.

For bait no one cares about size

Seiners care about size as they go to comm market

would increasing the size further? hup? you should have more fish to grow & spawn

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The stock has shown some signs of recovery even though we had a fishery.

Estimating we are not at half of the LRP, yet we are deep in the critical zone

Pelagics are quite unpredictable

Big boost in pelagic science funding.

Imp. to have input from FN as this is an Atlantic Wide managed stock

The USA TAC has always entered into the equation. The US fishery is more dependent on the Canadian fishery. Their stock has continued to contract while ours has grown slightly

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USA - 9,100 for next 3 years 17-18-19 closer to total catches than Canada

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There is an incentive to regrow the stock.

There must be an incentive to rebuild.

Despite what the Americans say we need to have it clear that the "if we don't catch them the Americans will"

Any future decision extends well beyond mackerel. MSC audits traceability, manageability so much to be aware of. The lobster industry is impacted by MSC.

Can DFO management reduce undeclared amounts of mackerel.

If bait rules are constant then the undeclared catches are more accurate. Alot to do with bait rules.

Recreational fishery will

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7.

Ecosystem Approach to management

it would be a good candidate of an EA to management.

yes seals eat mackerel but not a major player; there is also competition among the pelagic fish.

people at DFO are starting to take a very good look at EA approach; the DFO culture is changing.

[redacted] CFLC.

PA approach and doing what's right. - how do we explain this to Canadians?

[redacted] - NBAPC [redacted], NBAPC
[redacted] NCNS [redacted] APC
[redacted] - Malacite First Nation

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better job of understanding bait; recreational is harder to deal with. People are using the "recreational" fishery to fish for bait.

Southern Gulf has to change Christa persuaded people to do a good job.

Licencing + access - there is a freeze on 765 seiners. Should we recommend a freeze on new licence. Do we want to keep adding new licences Should we freeze

Does seine participation make sense · when you allow more seingers you impact the market value for fish.

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Rec - change seasons & vary the bag limit this takes time but we can't have a black hole of data

minimum size - some challenges to go higher but we can put it on the table.

Any other management measures to put on the agenda:

What are the definitions of the gear types [redacted] asn't a fan of auto jigger or gillnet; what's the more humane or less harmful fishing method. The auto (manual) crane is fast & you don't catch marine mammals & more than 5 hooks its not legal for recreation.

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use of gillnet vs other gear types (selectivity of gill nets)
(hand jiggers)
(auto jigger)
(rod & reel)

Gear is based on the region
: too

commercial guys want to restrict the bait fishers? (not sure)
Maritimes doesn't have restrictions for gear type. Hail requirement
dog requirements
DMP
making it more expensive for fishers means they go recreational to avoid the cost.

a decline in the stock is not acceptable; harvest decision rules

WG
TOR - draft tomorrow
objectives have a call out for next fall 2017 or winter 2018

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If the WG can complete work in a year then we could go forward to the next advisory in 2019(?)

This gov does care, what you think.

The First Nations group found this to be a ~~a~~ valuable meeting; hope our opinion was valued + weighted.

Shifting baseline syndrome be cautious; don't get excited over a small bump when we are so far from being healthy.

Made it NS process KMO in the Ministers' mandate letter, the true rights holders. Special session was very emp.

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Waters, Christa

From: [redacted]
Sent: March-28-17 11:59 AM
To: Waters, Christa
Subject: Seat at AMAC

Good morning Christa
Just a note regarding the upcoming mackerel meeting. My concern is the best inshore representation, which I am less and less able to provide in these anxious times, and this darn aging process. I would like to suggest that either or both [redacted] from the SMB trap fishery would do a better job. They could alternate in the seat appointed. The SMB trap fishery because of the increasing minimum size, is in a very dire circumstance, which it may not survive, but I am confident these boys will represent our interests very well.
Best regards, [redacted]

[redacted]

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Waters, Christa

From: [redacted]
Sent: March-28-17 11:27 AM
To: Waters, Christa
Subject: Re: FW: Atlantic Mackerel Advisory Committee / Comité consultatif du maquereau de l'Atlantique

I would say, like I told you the other day at the meeting,it should be the Nova Scotia Federation of Anglers And Hunters, as we represent 25,000 members and supporters, probably the biggest recreational group in the province.I can see letting smaller clubs into the regional group but at this table I think it should be N.S.F.A.H.

On 28/03/2017 10:46 AM, Waters, Christa wrote:

> Morning,
> I am going to be making the case for a recreational representative have a seat at the table. I just need you folks to decide who that will be, or if you want to share.
> Crista
>
> ---
>
> **From:** [redacted]
> **Sent:** March 28, 2017 10:20 AM
> **To:** Waters, Christa
> **Subject:** Re: FW: Atlantic Mackerel Advisory Committee / Comité consultatif du maquereau de l'Atlantique
>
> My guess is that recreational comes in under community,is that right?
>
> On 27/03/2017 10:39 AM, Waters, Christa wrote:
>
> > Hello,
> > Please see the message below regarding the Atlantic Mackerel Advisory Committee. I encourage you to discuss with your colleagues who will be best to sit at the table. In addition, you may be able to rotate your seat (sharing).
> > Christa
> >
> > ---
> >
> > **From:** Browne, Ryan
> > **Sent:** March 24, 2017 5:45 PM
> > **Subject:** Atlantic Mackerel Advisory Committee / Comité consultatif du maquereau de l'Atlantique
> >
> > SENT ON BEHALF OF BRIAN LESTER, CHAIR, ATLANTIC MACKEREL ADVISORY COMMITTEE (AMAC)
> > ENVOYÉ DE LA PART DE BRIAN LESTER, PRÉSIDENT, COMITÉ CONSULTATIF DE MAQUEREAU ATLANTIQUE (CCMA)
> >
> > (Le français suit)
> >
> > Hello all:

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Given it is anticipated that there will be a large number of stakeholders at the Atlantic Mackerel Advisory Committee meeting on March 30th, participation at main table will be limited. In order to facilitate the proceeding for this meeting, we will follow the limits as defined in the Integrated Fisheries Management Plan for Atlantic Mackerel, as per below.

"...To ensure orderly meetings, the number of members per DFO Region who sit at the meeting table is limited to one representative per Aboriginal group or community, three for the inshore fleets, one for the large seiners, and two for the processing industry. In addition, there is one government representative per province. Other interested parties may attend as observers."

Integrated Fisheries Management Plan for Atlantic Mackerel:
http://www.dfo-mpo.gc.ca/fm-gp/peches-fisheries/ifmp-gmp/mackerel-atl-maquereau/mac-atl-maq-2007-eng.htm

Please identify to your DFO Regional Small Pelagics Advisor, by noon on March 29th, your interest to occupy one of the seats assigned for the Region at the AMAC table.

Christa Waters: Maritimes Region: Christa.Waters@dfo-mpo.gc.ca

Erin Dunn: Newfoundland Region: Erin.Dunne@dfo-mpo.gc.ca

Mario Gaudet: Gulf Region: Mario.Gaudet@dfo-mpo.gc.ca

Antoine Rivierre: Québec Region: Antoine.Rivierre@dfo-mpo.gc.ca

Thank you.

Brian

Bonjour a tous,

Étant donné qu'il est prévu qu'il y aura un grand nombre d'intervenants lors de la réunion du Comité consultatif du maquereau de l'Atlantique le 30 mars, la participation à la table principale sera limitée. Afin de faciliter la procédure de cette réunion, nous suivrons les limites définies dans le Plan de gestion intégrée des pêches du maquereau de l'Atlantique, comme indiqué ci-dessous.

... Afin d'assurer le bon déroulement des réunions, on limite le nombre de membres par Région du MPO qui s'assoient à la table comme suit : un seul représentant par groupe autochtone ou communautaire, trois représentants des flottilles côtières, un représentant des grands senneurs et deux représentants de l'industrie de la transformation. De plus, il y a un représentant de chaque gouvernement provincial. D'autres parties intéressées peuvent assister aux réunions à titre d'observateur.

Plan de gestion intégrée de pêche pour le maquereau de l'Atlantique :

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http://www.dfo-mpo.gc.ca/fm-gp/peches-fisheries/ifmp-gmp/mackerel-atl-maquereau/mac-atl-maq-2007-fra.htm

Veuillez indiquer à votre conseiller(e) régional(e) pour les petits poissons pélagiques du MPO, d'ici midi le 29 mars, votre intérêt à occuper l'un des sièges assignés à la région à la table du CCMA.

Christa Waters: Région des Maritimes: Christa.Waters@dfo-mpo.gc.ca

Erin Dunn: Région de Terre-Neuve-et-Labrador: Erin.Dunne@dfo-mpo.gc.ca

Mario Gaudet: Région du Golfe: Mario.Gaudet@dfo-mpo.gc.ca

Antoine Rivierre: Région du Québec: Antoine.Rivierre@dfo-mpo.gc.ca

Je vous remercie.

Brian

Ryan Browne

Administrative Assistant, Resource Management
Fisheries and Oceans Canada / Government of Canada
ryan.browne@dfo-mpo.gc.ca / Tel: 613-991-1833

Adjoint Administratif, Gestion intégrée des ressources
Pêches et Océans Canada / Gouvernement du Canada
ryan.browne@dfo-mpo.gc.ca / Tél. : 613-991-1833

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Waters, Christa

From: Waters, Christa
Sent: March-28-17 10:57 AM
To: [redacted] Atlantic Herring Co-op / Full Bay Scallop; [redacted] (seacrestfish@eastlink.ca); [redacted] Cheney, Sarah; [redacted] Fort Folly FN; [redacted] gtupper glooscapfirstnation; [redacted] North of Smokey; [redacted] <pocket.fisheries@ns.sympatico.ca>; [redacted] Singh, Rabindra; Surette, Dwayne E; [redacted] wfnfisheries@bellaliant.net
Subject: FW: Atlantic Mackerel Advisory Committee / Comité consultatif du maquereau de l'Atlantique
Attachments: AMAC Minutes_eng_fr.pdf; mackerel_science_AMAC.pdf; science_maquereau_AMAC.pdf

Hello,
For your information.
Christa

From: Browne, Ryan
Sent: March 28, 2017 10:51 AM
Subject: Atlantic Mackerel Advisory Committee / Comité consultatif du maquereau de l'Atlantique

SENT ON BEHALF OF BRIAN LESTER, CHAIR, ATLANTIC MACKEREL ADVISORY COMMITTEE (AMAC)
ENVOYÉ DE LA PART DE BRIAN LESTER, PRÉSIDENT, COMITÉ CONSULTATIF DE MAQUEREAU ATLANTIQUE (CCMA)

Please find attached background materials for the upcoming AMAC meeting. Please also note there is no teleconference/WebEX available.

Veuillez trouver ci-joint les documents pour la prochaine réunion du CCMA. Veuillez noter également qu'il n'y a pas de téléconférence / WebEX disponible.

Thank you,
Merci,

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Ryan Browne

Administrative Assistant, Resource Management
Fisheries and Oceans Canada / Government of Canada
ryan.browne@dfo-mpo.gc.ca / Tel: 613-991-1833

Adjoint Administratif, Gestion intégrée des ressources
Pêches et Océans Canada / Gouvernement du Canada
ryan.browne@dfo-mpo.gc.ca / Tél. : 613-991-1833

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Atlantic Mackerel Advisory Committee Meeting 2015
Record of decision
Chair – Brian Lester

OPENING REMARKS

The Chair did a roundtable and welcomed everyone to the call.

REVIEW OF FISHERY

The TAC was set at 10,000t and the minimum size was increased to 263 mm for the 2014 fishery. The landings were initially stated to be 8062t along with a breakdown of landings by region. Landing amounts were later corrected to 6394t in an email to the committee members.

The chair did a roundtable looking for comments from industry on the 2014 fishery:

Newfoundland:
There were lots of fish but they were small and the distribution of fish was varied (ie. the fish were not following their traditional migration patterns).

Gulf Nova Scotia;
There were more fish of larger size.

Saint Margaret's Bay:
Mackerel were more abundant. There were no big fish; however there were lots of spawning females.

Newfoundland:
Lots of mackerel but they were spread out.

Prince Edward Island:
Mackerel were abundant and large and would have had higher landings had weather been cooperative.

New Brunswick:
Lots of small fish

Quebec:
Mix of views with some fishermen seeing lots of big fish and while others saw a small number of small fish. The province felt that based on landings from 2014 there is no reason for concern.

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Chair summary – seems there are lots of fish but they are small and are seeing them in places they are not normally not found in and not seeing them where they have traditionally been.

SCIENCE UPDATE – MARTIN CASTONGUAY

The Department is in the process of replacing the small pelagics scientists and this will take a few months.

Egg survey
There is funding from the Province of Newfoundland to do an egg survey in White Bay and Notre Dame Bay in NL to see if these bays may also be significant spawning grounds. While there may be spawning occurring everywhere; it's about the amount of fish that are spawning, it's the matter of scale of spawning that's important. In 2009, an Atlantic wide survey was conducted and the bulk of the spawning was believed to be in the southern Gulf (99%).

US collaboration
Science is looking to start new collaborative work with the USA with funds from International Governance Strategy (IGS). Science submitted a project to improve Canada's assessment and is awaiting approval. By looking at the impact of unreported catch on quality of assessment, the Department will be sending out surveys in both countries (as this is an issue in both countries).

Science confirmed that stock assessments are planned to be completed every 2 years as it is not possible to do one every year. The next full assessment is expected to take place next year (2016).

Industry had concerns with the lack of knowledge the Department has on this forage species and its interactions with the ecosystem. They noted that without the commercial fishery there would be very little data available as little is known about what is happening in the bait and recreational fisheries. The chair encouraged industry to work with science to provide more usable data for stock assessment purposes.

Industry inquiry
[redacted] - asked if the western mackerel are genetically similar to the eastern European mackerel. Science indicated that they were not aware of any genetic study being done but that the increase in mackerel on eastern side of Greenland most likely came from Europe.

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TAC FOR 2015 s.19(1)

Three options were discussed and industry views are presented below:

Rollover	24,000	36,000
Gaspe	NL mobile gear	NL harvester
FFAW	, NL mobile gear	FFAW
RPPSG.	, NS harvester representative	
North shore PEI	, QC Lower North Shore	
SMB -also requested Min size down to 250mm	GNS representative (10,000 up to 24,000t)	
NS inshore harvester and decrease min size	GNS representative	
Province of NL	NB Connors Bros (10,000 up to 24,000)	
Province of NB	NS herring fishermen (10,000t up to 24,000t)	
Province of QC		
Province of PEI		

Some industry members requested the minimum size be further increased while one Nova Scotia interest requested that it return to 250mm. There was little support for either change.

The Chair informed the group that COSEWIC is asking why the Canadian TAC was set at 10,000t in 2014 when science recommended TAC of 800t. While the stock may be cyclical; it is more depleted than we have ever seen it. He also reminded members that it is fish distribution and catch history that are the biggest influences when working with other countries on stock sharing and not normally established TAC levels by any one party.

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OTHER MANAGEMENT MEASURES

Regulatory Change for Recreational Fishery
Chair proposes 2 possible options for regulation change in fishery:
1) Broader regulation change for all Atlantic Canada
2) Regulation change specifically for mackerel

There was little support for a regulation change as industry felt it was "a waste of time" for how little fish is taken in the recreational fishery and that it would be difficult to enforce controls when we are dealing with "thousands of communities" spread over a wide area.

Chair summarized the call:

1) Industry noted signs of lots of fish but they are small and they are not following their normal distribution patterns
2) No support for 800t TAC.
3) Majority supported 10,000t TAC rollover.
   Some supported 10,000t with an in season review. If the stock is showing positive signs and the fish are available then increase the TAC to 24,000t.
4) Some minor support for a TAC increase to 36,000t
5) In 2015, the USA did not want to exceed 40,000t for both USA and Canada as such there 25,000t TAC was based on the following: 15,000t TAC for Canada - 10,000 commercial + 5,000t for unreported. As of today the USA landings are 1500t.

Rebuilding Plan
Chair stated that a discussion on the rebuilding plan will happen next year.

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LIST OF PARTICIPANTS

NAME	ORGANIZATION
Nancy Pond	Department of Fisheries and Aquaculture, Province of Newfoundland and Labrador
[redacted]	Newfoundland 3KL Mobile Gear representative (east coast)
[redacted]	FFAW Staff Representative (4R Fixed Gear)
[redacted]	Newfoundland harvester
[redacted]	Newfoundland harvester
[redacted]	Newfoundland Fixed Gear
[redacted]	FFAW - Staff Representative (4R)
[redacted]	FFAW – Director of Inshore Sector
[redacted]	FFAW – Staff Representative
[redacted]	Executive Director of Association of Seafood Producers
[redacted]	Newfoundland processor
[redacted]	Newfoundland processor
[redacted]	Newfoundland processor – "Allan Fisheries"
[redacted]	
[redacted]	Gulf Nova Scotia representative
[redacted]	Gulf Nova Scotia representative
Gabriel Albert	Province of New Brunswick
[redacted]	New Brunswick "Connors Brothers"
Robert McMillan	Province of Prince Edward Island
[redacted]	PEIFA north shore representative
[redacted]	PEIFA
[redacted]	Nova Scotia herring and mackerel harvester "Scotia Gardens"
[redacted]	Nova Scotia harvester representative
[redacted]	Nova Scotia Guysborough county inshore mackerel harvester rep
[redacted]	Seacrest Fisheries - processing
[redacted]	Guysborough County Inshore Fishermen's association
[redacted]	Eastern shore Fishermen's Protective Association
[redacted]	Saint Margaret's Bay trap representative
Samir Benchabane	Province of Quebec

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[redacted]	Quebec Lower North Shore representative
	Southern Gaspe peninsula processors representative
	Quebec Middle North Shore representative
Jason Simms	DFO Newfoundland
Pierre Mallet	DFO Gulf
Gerard peters	DFO Maritimes
Mathieu Bergeron	DFO Quebec
Martin Castonguay	DFO Science

EKME 3603167

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Réunion du Comité consultatif du maquereau bleu de 2015
Compte rendu des décisions
Président – Brian Lester

MOT D'OUVERTURE

Le président procède à un tour de table et souhaite la bienvenue aux participants à la conférence téléphonique.

EXAMEN DE LA PÊCHE

Le total autorisé des captures (TAC) a été fixé à 10 000 t et la taille minimale a été augmentée à 263 mm pour la pêche de 2014. Les débarquements déclarés initialement étaient de 8062 t, et les données fournies comprenaient une répartition des débarquements par région. Les quantités débarquées ont été corrigées par la suite à 6394 t dans un courriel aux membres du Comité.

Le président procède à un tour de table afin de recueillir des commentaires de la part de l'industrie sur la pêche de 2014.

Terre-Neuve-et-Labrador :
Il y a eu beaucoup de poissons, mais ils étaient de petite taille et la répartition des poissons était variée (les poissons ont dérogé de leurs habitudes migratoires traditionnelles).

Golfe de la Nouvelle-Écosse :
Il y a eu plus de poissons de grande taille.

Baie St. Margaret's :
Les maquereaux étaient plus abondants. Il n'y avait pas de poisson de grande taille, toutefois, il y avait beaucoup de femelles en frai.

Terre-Neuve-et-Labrador :
Il y avait beaucoup de maquereaux, mais ils étaient dispersés.

Île-du-Prince-Édouard :
Les maquereaux étaient abondants et de grande taille, et les débarquements auraient été plus élevés si le temps avait été favorable.

Nouveau-Brunswick :
Il y avait beaucoup de poissons de petite taille.

Québec :

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Les opinions des pêcheurs sont partagées : certains ont constaté beaucoup de poissons de grande taille tandis que d'autres ont plutôt observé un petit nombre de petits poissons. Considérant les débarquements de 2014, la province estime qu'il n'y a aucune raison de s'inquiéter.

Résumé du président – Il semble qu'il y a beaucoup de poissons, mais qu'ils sont petits; les pêcheurs ont constaté leur présence dans des endroits inhabituels, mais pas où ils se trouvent traditionnellement.

MISE À JOUR DU SECTEUR DES SCIENCES – MARTIN CASTONGUAY

Le Ministère est en voie de remplacer les scientifiques qui se consacrent aux petits poissons pélagiques et cela va prendre quelques mois.

Relevé des œufs
La province de Terre-Neuve-et-Labrador a octroyé des fonds pour effectuer un relevé des œufs dans la baie White et la baie Notre Dame de T.-N.-L. pour voir si ces baies sont aussi d'importantes frayères. Bien qu'il se peut que le frai ait lieu partout, le point essentiel est la quantité de poissons qui fraient; c'est l'ampleur du frai qui est importante. En 2009, un sondage a été mené à l'échelle de l'Atlantique et celui-ci a révélé que les répondants croyaient que l'essentiel du frai avait lieu dans le sud du golfe du Saint-Laurent (99 %).

Collaboration des États-Unis
Le Secteur des sciences souhaite entreprendre de nouveaux travaux de collaboration avec les États-Unis à même les fonds de la Stratégie de gouvernance internationale (SGI). Le Secteur des sciences a soumis un projet visant à améliorer l'évaluation du Canada et attend son approbation. Pour déterminer les répercussions des prises non déclarées sur la qualité de l'évaluation, le Ministère enverra des questionnaires dans les deux pays (étant donné qu'il s'agit d'un problème partagé).

Le Secteur des sciences a confirmé que des évaluations des stocks sont prévues tous les deux ans, puisqu'il n'est pas possible d'en faire chaque année. La prochaine évaluation complète doit avoir lieu l'année prochaine (2016).

L'industrie est préoccupée par le manque de connaissances du Ministère sur cette espèce fourragère et ses interactions avec l'écosystème. Les intervenants ont souligné que, sans la pêche commerciale, seule une très petite quantité de données serait disponible, car on en sait très peu sur ce qui se passe dans le cadre de la pêche à l'appât et de la pêche récréative. Le président invite l'industrie à collaborer avec le Secteur des sciences afin de fournir davantage de données utilisables aux fins d'évaluation des stocks.

Questions de l'industrie
Dick Stewart demande si le maquereau en provenance de l'ouest est génétiquement similaire au maquereau en provenance de l'Europe orientale. Le Secteur des sciences indique qu'à sa connaissance, aucune étude génétique n'est en cours, mais que

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l'augmentation du stock de maquereau sur la côte est du Groenland provient vraisemblablement de l'Europe.

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TAC pour 2015

Trois options sont examinées et les opinions exprimées par l'industrie sont présentées ci-dessous :

Reconduction	**24 000**	**36 000**
Gaspé	engins mobiles de T.-N.-L.	pêcheur de T.-N.-L.
FFAW	engins mobiles de T.-N.-L.	FFAW
RPPSH	représentant des pêcheurs de la N.-É.	
Rive nord de l'Î.-P.-É.	Basse-Côte-Nord du Québec	
Baie St. Margarets - demande également que la taille minimale soit réduite à 250 mm	, représentant du golfe de la Nouvelle-Écosse (souhaite voir le TAC passer de 10 000 t à 24 000 t)	
pêcheur côtier de la N.-É., demande une réduction de la taille minimale	représentant du golfe de la Nouvelle-Écosse	
Province de T.-N.-L.	N.-B., Connors Bros (souhaite voir le TAC passer	

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	de 10 000 t à 24 000 t)	
Province du N.-B.	[redacted] pêcheurs de hareng de la N.-É. (souhaite voir le TAC passer de 10 000 t à 24 000 t)	
Province de Québec		
Province de l'Î.-P.-É.		

Certains membres de l'industrie demandent que la taille minimale soit augmentée à nouveau tandis qu'un intervenant de la N.-É. demande qu'elle soit rétablie à 250 mm. Ni l'une ni l'autre de ces propositions ne récolte beaucoup d'appuis.

Le président informe le groupe que le COSEPAC se demande pourquoi le TAC canadien a été fixé à 10 000 t en 2014 alors que le Secteur des sciences a recommandé un TAC de 800 t. Bien que le stock pourrait être cyclique; il est plus en déclin que jamais auparavant. Le président rappelle également aux membres que les facteurs les plus importants lorsque vient le temps de collaborer avec d'autres pays en vue du partage des stocks sont la répartition des poissons et l'historique des prises, et que les niveaux de TAC ne sont généralement pas établis par une seule partie.

AUTRES MESURES DE GESTION

Modification de la réglementation de la pêche récréative
Le président propose deux options possibles de modification réglementaire dans le secteur de la pêche :
1) une modification réglementaire plus vaste pour l'ensemble du Canada atlantique
2) une modification réglementaire spécialement pour le maquereau

Il y a peu d'appui à une modification réglementaire, l'industrie étant d'avis qu'il s'agit d'une « perte de temps » vu la quantité infime de poisson prise dans le cadre de la pêche récréative et qu'il serait difficile d'appliquer des contrôles à des « milliers de collectivités » réparties sur un vaste territoire.

Le président fait un résumé de la conférence téléphonique :

1) L'industrie constate des signes d'une présence de nombreux poissons, mais ils sont petits et ne suivent pas les tendances de répartition habituelles.
2) Un TAC de 800 t ne recueille aucun appui.
3) La majorité des intervenants appuie une reconduction du TAC de 10 000 t. Certains intervenants sont en faveur d'un TAC de 10 000 t avec un examen en cours de saison. Si le stock montre des signes positifs et que les poissons sont disponibles, les intervenants sont en faveur d'une augmentation du TAC à 24 000 t.
4) Quelques intervenants appuient une augmentation du TAC à 36 000 t.

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5) En 2015, les États-Unis n'ont pas voulu dépasser un TAC de 40 000 pour le Canada et les États-Unis. En conséquence, le TAC de 25 000 prévu pour les États-Unis était fondé sur la répartition suivante : TAC de 15 000 t pour le Canada, soit 10 000 t pour la pêche commerciale et 5 000 t pour la pêche non déclarée. À ce jour, les débarquements des États-Unis totalisent 1 500 t.

Plan de rétablissement
Le président annonce qu'une discussion sur le plan de rétablissement se tiendra l'an prochain.

LISTE DES PARTICIPANTS

NOM	ORGANISATION
Nancy Pond	Ministère des Pêches et de l'Aquaculture, province de Terre-Neuve-et-Labrador
	Représentant des engins mobiles de la division 3KL à Terre-Neuve-et-Labrador (côte est)
	Représentant du personnel de la FFAW
	Pêcheur de Terre-Neuve-et-Labrador
	Pêcheur de Terre-Neuve-et-Labrador
	Engins fixes à Terre-Neuve-et-Labrador
	FFAW – Représentant du personnel (4R)

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	FFAW – Directeur du secteur côtier
	FFAW – Représentant du personnel
	Directeur exécutif de l'Association des producteurs de fruits de mer
	Entreprise de transformation de Terre-Neuve-et-Labrador
	Entreprise de transformation de Terre-Neuve-et-Labrador
	Entreprise de transformation de Terre-Neuve-et-Labrador – « Allan Fisheries »
	Représentant du Golfe de la Nouvelle-Écosse
	Représentant du Golfe de la Nouvelle-Écosse
Gabriel Albert	Province du Nouveau-Brunswick
	Les « Connors Brothers » du Nouveau-Brunswick
Robert McMillan	Province de l'Île-du-Prince-Édouard
	Représentant de la PEIFA de la côte nord
	PEIFA
	Pêcheur de hareng et de maquereau de Nouvelle-Écosse « Scotia Gardens »
	Représentant des pêcheurs de la Nouvelle-Écosse
	Représentant des pêcheurs côtiers du comté de Guysborough de Nouvelle-Écosse
	Seacrest Fisheries – Transformation
	Guysborough County Inshore Fishermen's Association
	Eastern Shore Fisherman's Protective Association
	Représentant des pêcheurs au casier de la baie St. Margaret's
Samir Benchabane	Province de Québec
	Représentant de la Basse-Côte-Nord du Québec
	Représentant des entreprises de transformation de la péninsule de Gaspé-Sud
	Représentant de la Moyenne Côte-Nord du Québec
Jason Simms	MPO, Terre-Neuve-et-Labrador
Pierre Mallet	MPO – Golfe
Gerard Peters	MPO – Maritimes
Mathieu Bergeron	MPO, Québec
Martin Castonguay	MPO, Sciences

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Waters, Christa

From: Waters, Christa
Sent: March-28-17 9:26 AM
To: Muise, Dwayne
Subject: RE: Atlantic Mackerel Advisory Committee / Comité consultatif du maquereau de l'Atlantique
Attachments: Atlantic Mackerel Advisory Committee / Comité consultatif du maquereau de l'Atlantique; AMAC_Agenda.doc

This is great news. If you have any time btw now and then, I would love to have a quick conversation to let you know some details around the meeting.
Christa

From: Muise, Dwayne
Sent: March 28, 2017 9:22 AM
To: Sperry, Chris
Cc: Yeaton, Brad; Waters, Christa
Subject: RE: Atlantic Mackerel Advisory Committee / Comité consultatif du maquereau de l'Atlantique

Chris/Christa,

I can attend, Christa can you provide me with the details of the Committee meeting? Thanks

---

From: Sperry, Chris
Sent: March 28, 2017 9:15 AM
To: Muise, Dwayne
Cc: Yeaton, Brad
Subject: Fw: Atlantic Mackerel Advisory Committee / Comité consultatif du maquereau de l'Atlantique

Dwayne,

Would you be able to attend this for SWNS? By phone?

If you can, could you get in touch with Christa to get details and call in info.

[redacted]

Chris

Sent from my BlackBerry 10 smartphone on the Bell network.

From: Waters, Christa <Christa.Waters@dfo-mpo.gc.ca>
Sent: Tuesday, March 28, 2017 9:09 AM
To: Sperry, Chris; Bieren, Stacey; Somerville, Todd
Cc: Curwin, Ryan; Morash, Paul; Yeaton, Brad
Subject: RE: Atlantic Mackerel Advisory Committee / Comité consultatif du maquereau de l'Atlantique

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Hello,
AMAC is on Thursday. Just want to follow up. Will there be anyone from C&P there? We had no one attend the MARMAC in person (at least one on the phone).
Christa

From: Sperry, Chris
Sent: March 1, 2017 4:04 PM
To: Waters, Christa; Bieren, Stacey; Penny, Lorne; Surette, Dwayne E; McKinnon, Jim; Cheney, Sarah
Subject: Re: Atlantic Mackerel Advisory Committee / Comité consultatif du maquereau de l'Atlantique

Dwayne M, are you available to attend as SWNS Rep ?

C

Sent from my BlackBerry 10 smartphone on the Bell network.

From: Waters, Christa
Sent: Wednesday, March 1, 2017 3:57 PM
To: Sperry, Chris; Bieren, Stacey; Penny, Lorne; Surette, Dwayne E; McKinnon, Jim; Cheney, Sarah
Subject: FW: Atlantic Mackerel Advisory Committee / Comité consultatif du maquereau de l'Atlantique

Hello,
I do not see any of you folks on the invitation for the AMAC. Here is the invite. It would be great to have at least one C&P rep for the Region there, if at all possible.
Thanks,
Christa

Christa Waters
Regional Senior Fisheries Management Advisor
Resource Management | Gestion des Pêches
Maritimes Region | Région des Maritimes
Telephone | Téléphone 902-293-6541

From: Browne, Ryan
Sent: February 23, 2017 6:11 PM
To: président Inshore ; (ACPG) ; représentant RPPCI ; ; Assoc. des Senneurs du Golfe; Atlantic Herring Co-op ; (Independent Fish Harvesters Association) ; Gespeg; (RPPNG) ; - Assoc. of inshore Fishermen of Magdalen Islands; Castonguay, Martin; Cawthray, Jenness; Regroupement des Palangriers et Petoncliers Uniques Madelinots; Regroupement des pecheurs professionnels du Sud de la Gaspesie; Regroupement des Pecheurs Professionnels des Iles ; Assoc. des Pecheurs Proprietaires des Iles; ACG; Doniol-Valcroze, Thomas; (Regroupement des pêcheurs professionnels du Sud de la Gaspésie; Dunne, Erin; Gulf Nova Scotia Bonafide Fishermen's Assoc.; Gulf Nova Scotia Fishermen's Coalition; Hardy, Magalie; Assoc. des pêcheurs polyvalents de Old Fort à Blanc-Sablon; AGHAMM; (AC17) ; Regroupement des Pecheurs professionnels de la Haute et Moyenne Cote-Nord Inc.; Lester, Brian; Maritimes Fishermen Union; istuguj; Micmacs of Gesgapegiag Band Council; New Brunswick

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Wildlife Federation; [redacted] Northumberland Fishermen's Assoc.; [redacted] PEI Fishermen's Assoc.; [redacted] président RPPCI ; [redacted] Regroupement des Pêcheurs et Pêcheuses du cote des Iles; [redacted] Maritimes fishermen's Association; [redacted] (Grand Chief - Innu Nation) ; Rivierre, Antoine; [redacted] -Agence Mamu Innu Kaikusseht (AMIK); [redacted] (Barry Group) ; [redacted] The Native Council of PEI; The Netukulimkewe'l Commission; The New Brunswick Aboriginal Peoples Council; Waters, Christa; Waters, Christa; [redacted]

Subject: Atlantic Mackerel Advisory Committee / Comité consultatif du maquereau de l'Atlantique

SENT ON BEHALF OF BRIAN LESTER, CHAIR, ATLANTIC MACKEREL ADVISORY COMMITTEE (AMAC)

ENVOYÉ DE LA PART DE BRIAN LESTER, PRÉSIDENT, COMITÉ CONSULTATIF DE MAQUEREAU ATLANTIQUE (CCMA)

Thank you,
Merci,

Ryan Browne
Administrative Assistant, Resource Management
Fisheries and Oceans Canada / Government of Canada
ryan.browne@dfo-mpo.gc.ca / Tel: 613-991-1833

Adjoint Administratif, Gestion intégrée des ressources
Pêches et Océans Canada / Gouvernement du Canada
ryan.browne@dfo-mpo.gc.ca / Tél. : 613-991-1833

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Dale, Francine

From: Browne, Ryan
Sent: March-06-17 3:25 PM
Subject: Atlantic Mackerel Advisory Committee / Comité consultatif du maquereau de l'Atlantique
Attachments: AMAC_Agenda.pdf; AMAC_Invitation_2017.pdf

SENT ON BEHALF OF BRIAN LESTER, CHAIR, ATLANTIC MACKEREL ADVISORY COMMITTEE (AMAC)
ENVOYÉ DE LA PART DE BRIAN LESTER, PRÉSIDENT, COMITÉ CONSULTATIF DE MAQUEREAU ATLANTIQUE (CCMA)

Hello All,

Attached please find the agenda as well as a copy of the previously sent invitation for the Atlantic Mackerel Advisory Committee meeting, taking place Thursday, March 30, 2017 in Halifax at the Delta Halifax Hotel, 1990 Barrington Street, Scotia Square, Halifax, NS. (902) 425-6700).

Please note that there are rooms blocked at the hotel until March 14th should you require accommodation.

Bonjour à tous,
Veuillez trouver ci-joint l'ordre du jour ainsi que l'invitation originale pour la réunion du Comité consultatif de maquereau de l'Atlantique qui aura lieu le 30 mars à l'hôtel Delta Halifax, 1990 rue Barrington, Scotia Square, Halifax, N-E (902) 425-6700.

Veuillez noter qu'il y a des chambres réservées à l'hôtel d'ici le 14 mars si vous avez besoin du logement.

Thank you,
Merci,

Ryan Browne

Administrative Assistant, Resource Management
Fisheries and Oceans Canada / Government of Canada
ryan.browne@dfo-mpo.gc.ca / Tel: 613-991-1833

Adjoint Administratif, Gestion intégrée des ressources
Pêches et Océans Canada / Gouvernement du Canada
ryan.browne@dfo-mpo.gc.ca / Tél. : 613-991-1833

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Boudreau, Carol-Ann

From: Landry, Jean
Sent: March-29-17 1:25 PM
To: Gilbert, Michel
Cc: de Lafontaine, Yves
Subject: TR: Mackerel Science briefing material
Attachments: Atlantic Mackerel Assessment Briefing Deck 170328.ppt; Atlantic Mackerel 101 March 28 2017.docx; Annexe 1 Sommaire maquereau _fra_ang.docx; Converting Mackerel Projections to TACs 170328 final.docx; Atlantic Mackerel Fish Profile 2017-03028 final.docx

Tel que mentionné il y a quelques minutes,

Trevor nous avait demandé cet hiver de le tenir informé régulièrement au sujet du maquereau alors nous avons préparé (ou mis à jour) plusieurs documents que nous lui avons transmis à son retour cette semaine. Julie a travaillé avec vos scientifiques sur la plupart d'entre eux alors je crois qu'il n'y a rien dans ces documents qui ne soit pas en ligne avec votre plus récent avis. Je veux partager cette info avec vous afin que vous sachiez ce que Trevor a déjà reçu de notre part. Notre envoi incluait aussi les boulettes transmises par Yves.

Encore merci à votre équipe scientifique sur le maquereau qui a contribué à des améliorations importantes à notre évaluation. On s'entend qu'on a encore des choses à améliorer (p.ex. les données de capture ☺), mais je ne voulais pas manquer l'occasion de souligner les progrès accomplis jusqu'à maintenant.

À plus

Jean

Jean Landry

Director , Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Jean.Landry@dfo-mpo.gc.ca / Tel: 613-993-0029

Directeur, Sciences halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Jean.Landry@dfo-mpo.gc.ca / Tél. : 613-993-0029

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Canada

De : Krohn, Martha
Envoyé : 28 mars 2017 14:43
À : Swerdfager, Trevor <Trevor.Swerdfager@dfo-mpo.gc.ca>
Cc : McPherson, Arran <Arran.McPherson@dfo-mpo.gc.ca>; Landry, Jean <Jean.Landry@dfo-mpo.gc.ca>; Marentette, Julie <Julie.Marentette@dfo-mpo.gc.ca>
Objet : Mackerel Science briefing material

Hello Trevor,

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Please find attached Mackerel briefing material

1) Mackerel 101
2) Mackerel one pager fish profile
3) Briefing deck
4) Projection table for risks associated with different catch levels
5) Approved bullets from the March 2017 stock assessment (which you have already received from Quebec)

These have all been reviewed by Jean and Arran.

We would be happy to provide you a briefing, especially given complexities with the TAC options and the issue of unreported catches.
The advisory meeting (AMAC) will take place Thursday in Halifax, and the TAC discussions will presumably follow shortly. (EFM is aiming for a final decision end of April).

Thanks you so much to Julie for producing this material!

Martha

Martha Krohn

National Manager, Fish Population Science
Fisheries and Oceans Canada / Government of Canada
martha.krohn@dfo-mpo.gc.ca/ **Tel: 613-998-4234 new number**

New Office # 12E245

Sciences des populations halieutiques
Pêches et Océans Canada / Gouvernement du Canada
martha.krohn@dfo-mpo.gc.ca / Tél. : 613-998-4234

Martha Krohn

Government of Canada / Gouvernement du Canada

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Cormier, Mélanie

De: Moffet Vincent (DAPPA) (Québec) <vincent.moffet@mapaq.gouv.qc.ca>
Envoyé: 29 mars 2017 08:28
À: Rivierre, Antoine
Objet: RE: Atlantic Mackerel Advisory Committee / Comité consultatif du maquereau de l'Atlantique

Merci. Le mien: [redacted] Bon voyage.

-----Message d'origine-----
De : Rivierre, Antoine [mailto:Antoine.Rivierre@dfo-mpo.gc.ca]
Envoyé : 29 mars 2017 08:16
À : Moffet Vincent (DAPPA) (Québec)
Objet : RE:Atlantic Mackerel Advisory Committee / Comité consultatif du maquereau de l'Atlantique

Monsieur Moffet.
Si besoin, vous pourrez me joindre au [redacted]

Antoine

De : Moffet Vincent (DAPPA) (Québec) [vincent.moffet@mapaq.gouv.qc.ca] Envoyé : mardi 28 mars 2017 14:57 À : Rivierre, Antoine Objet : RE: Atlantic Mackerel Advisory Committee / Comité consultatif du maquereau de l'Atlantique

Merci.

En réalité, j'arriverai à l'hôtel Delta vers les 21 h 00 demain.

Mais si vous avez du temps cet après-midi pour un bref échange, ce sera apprécié (voir mes coordonnées ci-après).

Vincent Moffet, directeur adjoint

Analyses et politiques des pêches et de l'aquaculture Ministère de l'Agriculture, des Pêcheries et de l'Alimentation du Québec 200, chemin Sainte-Foy, 11e étage, Québec, G1R 4X6 Tél. : 418 380-2100, poste [redacted][mapaq]

De : Rivierre, Antoine [mailto:Antoine.Rivierre@dfo-mpo.gc.ca]
Envoyé : 27 mars 2017 13:49
À : Moffet Vincent (DAPPA) (Québec)
Objet : RE: Atlantic Mackerel Advisory Committee / Comité consultatif du maquereau de l'Atlantique

C'est parfait !
Je serai à Halifax dès le mercredi. Si vous le souhaitez, nous pourrons trouver un peu de temps pour discuter plus longuement des différents enjeux.

Antoine

De : Moffet Vincent (DAPPA) (Québec) [mailto:vincent.moffet@mapaq.gouv.qc.ca]
Envoyé : March-27-17 10:59 AM
À : Rivierre, Antoine

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Cc : Desrosiers Denis (DAPPA) (Québec); Lavoie Christine (DAPPA) (Québec); Massé Nicole (DAPPA) (Québec) Objet : TR: Atlantic Mackerel Advisory Committee / Comité consultatif du maquereau de l'Atlantique

Bonjour M. Rivierre,

Je vous confirme ma présence à la rencontre du 30 mars.

Bien à vous,

Vincent Moffet, directeur adjoint

Analyses et politiques des pêches et de l'aquaculture Ministère de l'Agriculture, des Pêcheries et de l'Alimentation du Québec 200, chemin Sainte-Foy, 11e étage, Québec, G1R 4X6 Tél. : 418 380-2100, poste [redacted] [mapaq] De : Browne, Ryan [mailto:Ryan.Browne@dfo-mpo.gc.ca]
Envoyé : 24 mars 2017 16:45
Objet : Atlantic Mackerel Advisory Committee / Comité consultatif du maquereau de l'Atlantique

SENT ON BEHALF OF BRIAN LESTER, CHAIR, ATLANTIC MACKEREL ADVISORY COMMITTEE (AMAC) ENVOYÉ DE LA PART DE BRIAN LESTER, PRÉSIDENT, COMITÉ CONSULTATIF DE MAQUEREAU ATLANTIQUE (CCMA)

(Le français suit)

Hello all:

Given it is anticipated that there will be a large number of stakeholders at the Atlantic Mackerel Advisory Committee meeting on March 30th, participation at main table will be limited. In order to facilitate the proceeding for this meeting, we will follow the limits as defined in the Integrated Fisheries Management Plan for Atlantic Mackerel, as per below.

".To ensure orderly meetings, the number of members per DFO Region who sit at the meeting table is limited to one representative per Aboriginal group or community, three for the inshore fleets, one for the large seiners, and two for the processing industry. In addition, there is one government representative per province. Other interested parties may attend as observers."

Integrated Fisheries Management Plan for Atlantic Mackerel:
http://www.dfo-mpo.gc.ca/fm-gp/peches-fisheries/ifmp-gmp/mackerel-atl-maquereau/mac-atl-maq-2007-eng.htm

Please identify to your DFO Regional Small Pelagics Advisor, by noon on March 29th, your interest to occupy one of the seats assigned for the Region at the AMAC table.

Christa Waters: Maritimes Region: Christa.Waters@dfo-mpo.gc.ca<mailto:Christa.Waters@dfo-mpo.gc.ca>

Erin Dunn: Newfoundland Region: Erin.Dunne@dfo-mpo.gc.ca<mailto:Erin.Dunne@dfo-mpo.gc.ca>

Mario Gaudet: Gulf Region: Mario.Gaudet@dfo-mpo.gc.ca<mailto:Mario.Gaudet@dfo-mpo.gc.ca>

Antoine Rivierre: Québec Region: Antoine.Rivierre@dfo-mpo.gc.ca<mailto:Antoine.Rivierre@dfo-mpo.gc.ca>

Thank you.

Brian

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Bonjour a tous,

Étant donné qu'il est prévu qu'il y aura un grand nombre d'intervenants lors de la réunion du Comité consultatif du maquereau de l'Atlantique le 30 mars, la participation à la table principale sera limitée. Afin de faciliter la procédure de cette réunion, nous suivrons les limites définies dans le Plan de gestion intégrée des pêches du maquereau de l'Atlantique, *comme indiqué ci-dessous.*

. Afin d'assurer le bon déroulement des réunions, on limite le nombre de membres par Région du MPO qui s'assoient à la table comme suit : un seul représentant par groupe autochtone ou communautaire, trois représentants des flottilles côtières, un représentant des grands senneurs et deux représentants de l'industrie de la transformation. De plus, il y a *un représentant de chaque gouvernement provincial.* D'autres parties intéressées peuvent assister aux réunions à titre d'observateur.

Plan de gestion intégrée de pêche pour le maquereau de l'Atlantique :
http://www.dfo-mpo.gc.ca/fm-gp/peches-fisheries/ifmp-gmp/mackerel-atl-maquereau/mac-atl-maq-2007-fra.htm

Veuillez indiquer à votre conseiller(e) régional(e) pour les petits poissons pélagiques du MPO, d'ici midi le 29 mars, votre intérêt à occuper l'un des sièges assignés à la région à la table du CCMA.

Christa Waters: Région des Maritimes: Christa.Waters@dfo-mpo.gc.ca<mailto:Christa.Waters@dfo-mpo.gc.ca>

Erin Dunn: Région de Terre-Neuve-et-Labrador: Erin.Dunne@dfo-mpo.gc.ca<mailto:Erin.Dunne@dfo-mpo.gc.ca>

Mario Gaudet: Région du Golfe: Mario.Gaudet@dfo-mpo.gc.ca<mailto:Mario.Gaudet@dfo-mpo.gc.ca>

Antoine Rivierre: Région du Québec: Antoine.Rivierre@dfo-mpo.gc.ca<mailto:Antoine.Rivierre@dfo-mpo.gc.ca>

Je vous remercie.

Brian

Ryan Browne
Administrative Assistant, Resource Management Fisheries and Oceans Canada / Government of Canada
ryan.browne@dfo-mpo.gc.ca<mailto:%20ryan.browne@dfo-mpo.gc.ca> / Tel: 613-991-1833

Adjoint Administratif, Gestion intégrée des ressources Pêches et Océans Canada / Gouvernement du Canada
ryan.browne@dfo-mpo.gc.ca<mailto:%20ryan.browne@dfo-mpo.gc.ca> / Tél. : 613-991-1833

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s.16(2)(c)

Mallet, Pierre

From: Browne, Ryan
Sent: March-29-17 4:12 PM
Subject: Atlantic Mackerel Advisory Committee / Comité consultatif du maquereau de l'Atlantique

SENT ON BEHALF OF BRIAN LESTER, CHAIR, ATLANTIC MACKEREL ADVISORY COMMITTEE (AMAC)
ENVOYÉ DE LA PART DE BRIAN LESTER, PRÉSIDENT, COMITÉ CONSULTATIF DE MAQUEREAU ATLANTIQUE (CCMA)

Hello,

Please be advised that the Atlantic Mackerel Advisory Committee meeting will be taking place Thursday, March 30, 2017 in Halifax at the **Delta Halifax Hotel**, 1990 Barrington Street, Scotia Square, Halifax, NS. (902) 425-6700).

Due to inclement weather in Halifax, there will be two conference lines put in place to permit you to listen to the proceedings of the Atlantic Mackerel Advisory Committee on March 30. Please note, the phone lines are one-way. As such, you may call in on these lines to hear the proceeding; however,you will not be able to provide comments to the meeting on the phone lines.

You are welcome to provide your recommendations or comments in writing following the meeting directly to the Chair, Brian Lester at Brian.Lester@dfo-mpo.gc.ca or to Jenness Cawthray at Jenness.Cawthray@dfo-mpo.gc.ca . Please provide all input by April 5, 2017 so that views can be considered in the development of management measures for 2017 and 2018.

ENGLISH:
Conference ID [redacted]
Toll-free Dial-in number 1 877-413-4788

FRENCH:
Conference ID [redacted]
Toll-free Dial-in number 1 877-413-4790

Bonjour,

Veuillez prendre note que la réunion du Comité consultatif sur le maquereau de l'Atlantique aura lieu le jeudi 30 mars 2017 à Halifax, au **Delta Halifax Hotel**, 1990, rue Barrington, Place Scotia, Halifax (N.-É.). (902) 425-6700).

En raison des intempéries à Halifax, deux lignes de conférence seront mises en place pour vous permettre d'écouter les délibérations du Comité consultatif sur le maquereau de l'Atlantique le 30 mars. Veuillez noter que les lignes téléphoniques sont à sens unique. En tant que tel, vous pouvez composer ces numéros pour entendre la procédure; Toutefois, vous ne pourrez pas fournir de commentaires à la réunion à travers des lignes téléphoniques.

Nous vous invitons à faire parvenir vos recommandations ou commentaires par écrit après la réunion directement au président Brian Lester à Brian.Lester@dfo-mpo.gc.ca ou à Jenness Cawthray à Jenness.Cawthray@dfo-mpo.gc.ca. Veuillez fournir tous vos commentaires d'ici le 5 avril 2017 afin que les points de vue puissent être pris en compte dans l'élaboration de mesures de gestion pour 2017 et 2018.

ANGLAIS:

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Conférence ID [redacted]
Numéro sans frais 1 877-413-4788

FRANÇAIS:
Conférence ID [redacted]
Numéro sans frais 1 877-413-4790

Thank you,
Merci,

Ryan Browne

Administrative Assistant, Resource Management
Fisheries and Oceans Canada / Government of Canada
ryan.browne@dfo-mpo.gc.ca / Tel: 613-991-1833

Adjoint Administratif, Gestion intégrée des ressources
Pêches et Océans Canada / Gouvernement du Canada
ryan.browne@dfo-mpo.gc.ca / Tél. : 613-991-1833

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s.19(1)

Thomas, Tashina

From: Thomas, Tashina
Sent: March-29-17 12:59 PM
To: Lapierre, Daniel
Subject: RE: Mackerel

[redacted] I'll see what I can find out tomorrow (Pierre and Mario are at the AMAC meeting in Halifax tomorrow)

Tashina

From: Lapierre, Daniel
Sent: March 29, 2017 10:18 AM
To: Thomas, Tashina
Subject: FW: Mackerel

Hi Tashina,

Any updates on this end?

Daniel

From: Hachey, Carole M
Sent: 2017–March-24 2:21 PM
To: Thomas, Tashina; Lapierre, Daniel
Cc: Mallet, Pierre; Lemay, Gaëlle
Subject: RE: Mackerel

Here's my 2-cents worth on this.

You all need to decide exactly what information you need on the form. Once final, I have templates here that I can modify to create the form that will then be sent to DMCs. If the forms need a unique number, DMCs will have to send to their local print shop, so please take this into consideration so DMCs don't receive the form at the last minute.

Carole Hachey

Fisheries and Oceans – Gulf Region/Government of Canada
Carole.Hachey@dfo-mpo.gc.ca/Tel : 506-851-7729/Fax : 506-851-2504

Pêches et Océans Canada – Région du Golfe/Gouvernement du Canada
Carole.Hachey@dfo-mpo.gc.ca/Téléphone : 506-851-7729/Télécopieur : 506-851-2504

From: Thomas, Tashina
Sent: March-24-17 2:04 PM
To: Lapierre, Daniel
Cc: Mallet, Pierre; Lemay, Gaëlle; Hachey, Carole M
Subject: RE: Mackerel

Hi Daniel,

s.16(2)(c)
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I thought we were going to create a new one as a few lines were different from the gillnets. I'm not sure who would be responsible to create those forms.
If not I would use "espèces".

Tashina

From: Lapierre, Daniel
Sent: March-23-17 11:27 AM
To: Thomas, Tashina
Cc: Mallet, Pierre
Subject: FW: Mackerel

Bonjour Tashina,

Je ne me rappelle pas si vous aviez établi de façon définitive quel formulaire vous souhaitiez utiliser pour le maquereau, est-ce possible de confirmer.

Merci

Daniel

From: Island Weigh 95, Inc. [mailto:Islandweigh@hotmail.com]
Sent: 2017–March-23 10:32 AM
To: Lapierre, Daniel
Subject: Mackerel

Hi Daniel,

Can you please confirm ASAP what weighout forms we will be using for monitoring mackerel this coming year? Thanks.

President
Island Weigh 95, Inc.
PEI Dockside Monitoring Co.
P.O. Box 490
220 Harper Road
Tignish, PE
C0B 2B0
Ph: (902) 882-3186
Cell:
Website: islandweigh.com

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Waters, Christa

From: Waters, Christa
Sent: March-29-17 12:54 PM
To: [redacted]
Subject: RE: mackerel meetings

Hey [redacted]
I believe everything will work out fine. I sent an email on Monday about the requirement to request a seat at the table (it was a forward from NHQ). There are only three spots for inshore for Maritimes. As I look at the list that I have, it looks like SWNS is a bit of a gap. I will make a case to try and get you added.
Christa

From: [redacted]
Sent: March 29, 2017 12:22 PM
To: Waters, Christa
Subject: Re: mackerel meetings

Thanks ,but who is going to represent me and all the lic holders in my area. [redacted]
From: Waters, Christa
Sent: Wednesday, March 29, 2017 11:46 AM
To: [redacted]
Subject: RE: mackerel meetings

Hey [redacted]
There are no seats left at the table, but you can participate as an observer (and observers will be given an opportunity to speak). In addition, you are able to rotate in and out of seats, if you can find someone to do that with.
C

From: [redacted]
Sent: March 28, 2017 12:56 PM
To: Waters, Christa
Subject: Re: mackerel meetings

Hi,Christa was wandering if you send me the info on the meeting on Thrus.Thanks [redacted]

From: Waters, Christa
Sent: Wednesday, March 22, 2017 2:50 PM
To: [redacted]
Subject: RE: mackerel meetings

Hello [redacted]
The Fairbanks center is at Shubie park (address on agenda).
Christa

From: [redacted]
Sent: March 22, 2017 2:32 PM
To: Waters, Christa
Subject: Re: mackerel meetings

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s.19(1)

Hi,Christa was wandering if I could get a copy of the agenda ,also were is the Fairbanks Center.Thanks [redacted]

From: Waters, Christa
Sent: Monday, March 20, 2017 2:22 PM
To: mailto:[redacted]
Subject: mackerel meetings

Hello [redacted]

The regional mackerel advisory committee will be on Thursday March 23 at the Fairbanks Center (1-4). Let me know if you require further details. I will be sending out an Agenda this afternoon or tomorrow morning.

Christa

Christa

Christa Waters
Regional Senior Fisheries Management Advisor
Resource Management | Gestion des Pêches
Maritimes Region | Région des Maritimes
Fisheries and Oceans Canada | Pêches et Océans Canada
P.O. Box 1006 | C.P. 1006
Dartmouth, NS Canada B2Y 4A2 | Dartmouth, NÉ Canada B2Y 4A2
Christa.Waters@dfo-mpo.gc.ca
Telephone | Téléphone 902-293-6541
Government of Canada | Gouvernement du Canada

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s.19(1)

Waters, Christa

From: Wentzell, Doug
Sent: March-29-17 10:59 AM
To: Waters, Christa; MacDonald, Carl; Berthier, Jacinta
Subject: FW: advice summary
Attachments: Summary_Mackerel2017.docx

FYI...

Doug Wentzell
Regional Director, Fisheries Management
Fisheries and Oceans Canada | Government of Canada
Doug.Wentzell@dfo-mpo.gc.ca | Telephone: 902-426-9962 | Facsimile: 902-426-7967

Directeur régional, Gestion des pêches
Pêches et Océans Canada | Gouvernement du Canada
Doug.Wentzell@dfo-mpo.gc.ca | Téléphone: 902-426-9962 | Télécopieur: 902-426-7967

From: [redacted]
Sent: Tuesday, March 28, 2017 3:02 PM
To: Doniol-Valcroze, Thomas <Thomas.Doniol-Valcroze@dfo-mpo.gc.ca>
Cc: Castonguay, Martin <Martin.Castonguay@dfo-mpo.gc.ca>; Lester, Brian <Brian.Lester@dfo-mpo.gc.ca>; Mel Arnold <mel.arnold@parl.gc.ca>; Conservative Fisheries Critic Todd Doherty <todd.doherty@parl.gc.ca>; Sean Fraser <sean.fraser@parl.gc.ca>; Keith Colwell <min_dfa@gov.ns.ca>; Gillis, Sheldon <Sheldon.Gillis@dfo-mpo.gc.ca>; [redacted] Wentzell, Doug <Doug.Wentzell@dfo-mpo.gc.ca>; Mark MacPhail <mark.macphail@novascotia.ca>; [redacted] Hopper, Stephanie <Stephanie.Hopper@dfo-mpo.gc.ca>
Subject: Re: advice summary

Hello Thomas,

[redacted]

I received your advice summary. I am requesting that you may recommend I be added to the Atlantic Mackerel Advisory Committee acting as a liaison between Industry and Science for the Atlantic pertaining to the bait industry in the future. As one of the major hurdles facing your difficult job is the undeclared data I think my presence on the committee would be invaluable to better management of the species.

Also I have been told you need to have your power-point presentation that you displayed at the meeting last Thursday the 23rd cleared by your Science Director. I am requesting a contact email for the Director of Science who is responsible for this decision.

Furthermore I am looking for permissions to present to the committee on the 30th.

As soon as your power-point presentation is cleared to be released if you could forward me a copy that would be greatly appreciated .

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s.19(1)

Thank you and I look forward to seeing you on Thursday at AMAC

Best Regards

[redacted]

From: Doniol-Valcroze, Thomas <Thomas.Doniol-Valcroze@dfo-mpo.gc.ca>
Sent: March 28, 2017 10:18 AM
To: [redacted]
Cc: Castonguay, Martin
Subject: advice summary

[redacted]

I got your phone message yesterday morning when I passed by the office but I had to go get my plane for Halifax, where I have a series of meetings this week, and of course AMAC.

Regional approval was only obtained for the advice summary bullets yesterday. So I can now send them to you (attached). Following this approval, I finalized the powerpoint slides that will be presented at AMAC and sent them to the people organizing the meeting this morning. I don't know how this usually works by I assume they will distribute them to members.

Best,
Thomas

Thomas Doniol-Valcroze, PhD
Biologiste en sciences aquatiques | Aquatic Science Biologist
Direction des Sciences Pélagiques et des Écosystèmes | Pelagic and Ecosystems Sciences Branch
Pêches et Océans Canada | Fisheries and Oceans Canada
Institut Maurice-Lamontagne | Maurice-Lamontagne Institute
850, route de la mer, Mont-Joli, QC, Canada G5H 3Z4
thomas.doniol-valcroze@dfo-mpo.gc.ca
Téléphone | Telephone 418-775-0589
Télécopieur | Facsimile 418-775-0740

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SUMMARY

- Reported commercial landings in NAFO subareas 3 and 4 have decreased significantly in recent years. Between 2005 and 2013, they decreased from 54,621 t to 8,663 t before reaching 6,680 t in 2014 and 4,143 t in 2015. In 2016, the TAC of 8,000 t was reached.
- US landings (commercial and recreational) in NAFO subareas 5 and 6 also decreased significantly in recent years. Between 2005 and 2012, they decreased from 43,220 t to about 6,000 t and have remained at that level from 2013 to 2015.
- The issue of unrecorded catches has been investigated using a review of available data on bait needs and recreational fisheries, as well as an online survey aimed at mackerel fishermen. Both approaches show that total catches can reach 150% to 200% of declared catches, and that this ratio varies among regions and years.
- Following its increase in recent years, the length at 50% maturity has remained slightly above the minimum authorized length of 263 mm.
- The age structure in the fishery has contracted considerably since 2000 following the disappearance of fish older than 7 years. However, a slight improvement has been observed since 2013, with an increase of mackerel of ages 5 and 6.
- The abundance index from the egg survey in the southern Gulf reached its lowest level in 2012 (14,568 t), then slowly increased to 52,667 t in 2016. This value remains far below the abundance levels of over 750,000 t observed in the 1980s.
- A "censored" statistical catch-at-age model, calibrated with the abundance index from the egg survey and taking into account the uncertainty due to unrecorded catches, confirms that mackerel spawning biomass has declined due to high exploitation rates and reached its historical minimum in 2012 (20,000 t). According to the model, the 2016 spawning biomass was 40,000 t.
- The Limit Reference Point (LRP) for this stock is a proxy of $40\%B_{msy}$ based on $F_{40\%}$ derived from a yield-per-recruit analysis. According to the censored model, stock abundance in 2016 was about 40% of the 103,000 t LRP.
- Model projections were used to quantify the risks associated with different catch scenarios. Considering that the stock is in the critical zone, total catches (declared + unreported) should be low enough to facilitate recovery.
- It is particularly important to fill gaps in the biological sampling of the commercial catch in some areas, to accelerate compiling of landing statistics and to improve data collection on unreported catches.

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SOMMAIRE

- Les débarquements commerciaux rapportés des sous-régions 3 et 4 de l'OPANO ont considérablement diminué au cours des dernières années. Entre 2005 et 2013, ils sont passés de 54 621 t à 8 663 t, pour atteindre 6 680 t en 2014 et 4 143 t en 2015. En 2016, le TAC de 8,000 t a été atteint.
- Les débarquements américains (commerciaux et récréatifs) des sous-régions 5 et 6 de l'OPANO ont aussi connu une baisse importante au cours des dernières années. Entre 2005 et 2012, ils sont passés de 43 220 t à 6 000 t et sont restés à ce niveau de 2013 à 2015.
- La problématique des prises non-déclarées a été examinée à l'aide d'une synthèse des données disponibles sur les besoins en appât et sur les pêches récréatives, ainsi qu'à l'aide d'un sondage en ligne auprès des pêcheurs. Les deux approches montrent que les prises totales peuvent atteindre entre 150% et 200% des prises déclarées, et que ce rapport varie selon les provinces et au cours du temps.
- Suite à son augmentation au cours des dernières années, la longueur à 50 % de maturité se maintient légèrement au-dessus de la longueur minimale de capture autorisée de 263 mm.
- La structure d'âge au sein de la pêche s'est considérablement rétrécie depuis les années 2000 suite à la disparition des poissons de plus de 7 ans. Cependant, on observe une légère amélioration depuis 2013, avec une hausse d'abondance des maquereaux d'âge 5 et 6.
- L'indice d'abondance issu du relevé des œufs dans le sud du golfe a atteint son niveau le plus bas en 2012 (14 568 t), puis a remonté lentement jusqu'à 52 667 t en 2016. Cette valeur reste très en deçà des indices d'abondance de plus de 750 000t observés dans les années 1980.
- Un modèle statistique de prises à l'âge, dit « censuré », calibré par l'indice d'abondance des œufs et prenant en compte l'incertitude autour des prises non déclarées, confirme que la biomasse reproductrice du maquereau a décliné suite à des taux d'exploitation élevés et a atteint son minimum historique en 2012 (20 000 t). Selon le modèle, la biomasse en 2016 était de 40 000 t.
- Le Point de Référence Limite (PRL) pour ce stock est basé sur une approximation de $40\%B_{rms}$ à partir de $F_{40\%}$ tel qu'obtenu par une analyse de rendement par recrue. Suivant le modèle censuré, le stock se situe en 2016 à 40% du PRL de 103 000 t.
- Des projections permettent d'estimer les risques associés à différents scénarios de capture. Étant donné que le stock se situe dans la zone critique, la capture totale (déclarées + non-déclarées) devrait être suffisamment faible pour favoriser le rétablissement.

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- Il est particulièrement important de pallier aux lacunes dans l'échantillonnage de la pêche commerciale dans certains secteurs, d'accélérer la compilation des statistiques de débarquements et d'améliorer la collecte des données sur les prises non-déclarées.

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Waters, Christa

From: [redacted]
Sent: March-29-17 10:49 AM
To: Waters, Christa
Subject: Mackeral meeting on March 30, 2017

Importance: High

[redacted] will be the rep sitting at the table for Prospect/St. Margaret's Full Time Fishers Association (PAFFA) Mackeral Meeting on March 30, 2017.

Regards [redacted]

PAFFA President

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s.19(1)

AMAC

Date Mar 30/17

Intro
- specific time for observers as observers
- hull length now not registered length
- PPE + other regs

Qs for Science

Tom Dooley - Prov NL
- need for more research - science has been discussed
- glad to see this
- White Bay - Notre Dame Bay
- Table shows removal a number of TAC levels
- is this b/c of 2015 year class

Thomas - Actually no b/c of data lag of 2 yrs, should see in 2017 eff survey, we don't try to predict strong recruitment. If we get that, its a bonus

[redacted] (Gaspesie)
- so 2 yrs until we see recruitment
- we'd have to go another 2 yrs until next assessment
- herring - year-to-year assessments, can we do this here?

Thomas - we don't get our samples until

Page

Apr 2017

May 2017

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Date

late in year and then too late for next assessment

Q for clarification on timing

Thomas - samples taken all yr
- fertility based on samples in June, but we don't get them until much later
- and aging takes time

[redacted] (NL industry) - we've discussed small fish, so much small fish in the water, I know you are doing what you can but we don't see it

Thomas - yes, we have the data we have, limits on time, we also see small fish are in 4R

[redacted] - so many small fish

Thomas - no contradiction,

[redacted] - batch spawn, mackerel can hold eggs until right temperature
- how you calculate abundance index
- very hard to get eggs samples right

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- also on graph 12, you referenced 7-10 yr olds, another party here mentioned really big fish, not in the processors in another region

Thomas - may be a problem w sampling, but NL samples are really good. But don't know why plant / dock disconnect - may be a matter of proportion

[redacted] what abt European age structure

Martin - I think mostly skewed to younger fish

[redacted] - so why are we worry [Martin - maybe will be a problem]

EAC Legis @ 50% maturity - are you saying the min length is ↑ or ↓?

Thomas ↓ than L50

Calf Selmer - how do you wt your samples

Thomas - age structure is diff among regions, wt by catch vol

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Q - temps ↑ dist^n ? timing of studies?

Thomas - we go monitor Gulf temp closely but we do agree, temps imp. for adults and spawn
- we are doing research on that, just got funded
- will help understand $ troy recruitment events
- if temps optimal, and stock big enough → lots of Y0+ survival
- 2 yrs, in time for next assessment
- only prelim info now
- can't just use temp tho, its plankton

[redacted] - Slide 24 - NB - what is the undeclared? 97% undec'd

Thomas - Slide 21 - composition of respondents, few commercial respondents

[redacted] - we and you see different things, glad to see you are seeing more fish in the science, still a big disconnect, we are improving here but still not here

Thomas - I recognize that this disconnect is here, but keep in mind until later

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the TAC was never limity, even though it dropped. How the 2016 fishery went certainly affects views

[redacted] - so what happens with quotas, if modelly is using total catch, this is an issue. Also last year
- saw fish swimming far off shore
- so where fish are swimming for last 10 yrs, this is changing currents etc. So this affects the data
- were also seen huge changes in temps and other sites for spawning, this
- is on you too

Thomas - go to productivity - yes this affects model But model doesn't use CPUE so last yr's fishery closure doesn't affect the model
- where fish are (inshore, offshore) matters a lot, yes, this is why we don't use CPUE
- so we try to use total productivity + total biomass
- we keep looky for new spawn
- anyty were found <1% of Gulf
- so we are open to looking for more spawn

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[redacted] - Slide 12 - how would the European results fit in

Thomas - if European fish are coming in, would be included, would affect certain regions

Martin - yes, also new technique with otolith microchemistry, US/Can fish stock, the prelim data indicate US fishery is mostly operating on Canadian fish

Q - last year's total catch?

Thomas - 8000 TAC, 6000 landed

Q - UL of model?

Thomas - the survey is intended to provide a cap, the model searched in this space. Had a problem in 99 year class

[redacted] (PEI) - does US fishery show same age structure

Thomas - US using same egg index as US

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now, US saw same recruitment events as us

[redacted] - abc 1999 yr class came from super small biomass?
(Industry - this is normal)

Thomas: strong year classes come from middle range of biomass (more likely), but highly variable, common to small pelagics

[redacted] (NL) - mackerel come + go as they like, lots of little ones, where are the big ones coming from

Thomas - it is a vast ocean, our data are a good representation of what was available to be fished

Martin - no evidence they are in Greenland
- and this is the first time TAC has been limiting
- TAC does not explain why landings ↓

[redacted] - plant says some fish look different from different areas (E - short + chunky) (W - long + thin)
- strongly believe different stocks

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Martin - this is very interesting
- 3K vs 4R - we've heard this before but didn't know this was long term

Thomas - and in E Atlantic there is sub-structure, could be true here too, needs to be looked at more closely

[redacted] - 3KL - no landings because all small, no one wanted them
- how do we go from all small fish for 4-5 yrs and then big fish in 2016?
- they come when they come
- TAC kills the opportunity
- by the time Science catches up, the fish are gone again, vicious cycle, 2016 lots of fish, all gone 2016

Thomas - agree fish migratory, but in the past catches were high + remained high for long periods
- 3K one of the most variable

[redacted] - egg survey - same place / time every year?

Thomas - yes, over 1 week

[redacted] - we aren't follow climate change fast enough

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Thomas - we are seeing shifts in Gulf, but not much spawn at edges of area - fish can't spawn just anywhere

[redacted] if the fishery hadn't closed, how much would have been landed? Can you extrapolate? Eg by comparing to last yr

Thomas - I can't guess. The variability in where by fish go, the fact TAC has never been reached

[redacted] - we saw MKL in many bays, IMO we would have landed 30-40k€

Q - NOAA - biomass hasn't changed there, here we believe it has ↓, why the diff? Catchy MKL in squid

Martin - not sure what US believes now, assessment starts in May, using our egg index now, will be seen this fall

Thomas - US seen shifts in distn in winter with water temps - But US believes it is abundance, not distn

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Observer - Most Science On Gulf. We see (Mar FO) MKL & spawn in them up to Xmas, are we seeing the southern spawn stock. We can offer up samples

Thomas - view is that Gulf SL fish do migrate to US. You are located in a zone of high mixy. Otolith microchem will help resolve this

[redacted] - Sold 1.2 million lbs in 2015-6 Egg survey Q - done in a week? [yes] How much time on any one site [30min] Temp varies yr to yr? Do you wait for the wake temp? [no, adjust after the fact, and/or can't use data, 3-4 times in data series]

Brian - will be joint US Canada assessment in 2019

LUNCH

[redacted] Presentation: wants to start a MKL Assoc for a running dialogue
- NOAA 20% ahead
- genetic → Province can supply money
- wants on Committee

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Total Allowable Catch

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Brian participation of committee, determined by industry
- doesn't preclude dept asking as for EAC
- come back w Association

[redacted]
- no one else regulates on 10% by catch
- can't have pelagic fishery with this policy

Brian- TAC - here's the table

[redacted] - LRP? (103kt)

[redacted] - so we were at 14[redacted]k total, if declared + unclcd in the TAC, it may affect management decisions

Brian - unclcd will continue to be recorded, not sure how we would do that. If we were to change monitor, that could affect your decision

Thomas - model has no way to tell what unclcd is for future
- can use past averages, but if monitor changes this could affect undeclared catch

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Brian- shall we flip the ~~agenda~~ discussion order
- use of purchase slips to → catch not a problem until 2016, will have to change
- not sure how it will effect underl. catch, not NL, maybe Southern Gulf
- more realtime numbers?
-

Gaspe Coast - 100% fill out logbook

[redacted] why are all the provinces different, logbooks, dockside?

Brian - NL - fishery evolves, so does C+P, daily hails, valid point, to be addressed this yr

[redacted] - why not 100% logbook

[redacted] (Cape Breton) - we discussed accelerating reporting periods

EAC - happy w progress in stock
concern w differences in regions / monitoring

Gaspe Coast - TAC for 2yrs

Brian - most important is to understand what is being taken out of the water
- role for DFO + industry
- better to report

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[redacted] - everyone hates to be monitored, smtg needs to be put in place
- needs to be accounted for
- 6,kt, is almost as big as commercial

Brian - bait logs have poor return rates
- we need to address bait licences beg used for commercial purposes
- limits for bait #nets - varies by region, lots of limits
- could be where most of the unded catch is comig from
- also anyone can say they are rec fishing and no limits - will be good news on this

Q - concerned abt dockside monitog
- 40-50 boats out for MKL
- it won't work to have to call in advance
- 25% monitog won't work, not enough infrastructure

Brian - yes, C+P can't check everyone's logs - cost

[redacted] it sounds like ppl are saying we're actively not trying to report
- it wasn't always as important to fill out logbooks, not we are trying to hide

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Doniol-Valcroze

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[redacted] - until we resolve this, TAC will suffer

Brian - DFO has e-log initiative

[redacted] - what abt reports on rec fisheries

[redacted] NS Fed of Anglers + Hunters
- ppl - MKL for striped bass
- concern over abuse of bait fishery

[redacted] - reporting quality
- dockside companies / limited staff
- what abt e-logs, OPP funds

[redacted] - logbooks no good
- DFO websites hard to find
- duty to communicate

[redacted] what is minimum reporting DFO wants

[redacted] - how accurate is this table of projections? we aren't there yet
- 4000t, we would have wiped that out

Martin - are you thinking of 2014 assessment maybe

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[redacted] - are we using a precautionary approach
- also whether we look @ increase in size

Thomas - if you change the size limit, yes it will affect the productivity

Brian - we are looking at options for regulating rec fishery, 2 possible options, eg bag limit
- also PA approach would really require HCRs
- will be form a rebuilding Work Group
-

[redacted] - want to delay TAC setting (?)

Q - is TAC going to be both? decl + undecl

Brian - So Science talks about total removals - is 6,000 t undecl the number we are going with?
- Science can't really say if it will change
- It's a rough estimate, fits the model

Thomas - this table is the SA. It is internally consistent w Biomass, but this is disputed here. Reasonable to hold other opinion

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Q - So if we roll-over, we think 14kt removed last yr, if DFO put controls in place to ↓ uncleed catch, could the industry TAC ↑↑

Thomas - this is one of the potentials

Brian - I am not here to lay down decisions, I take concerns to Minister from what is expressed here

[redacted] as FFAW, we can't agree.
- revisit in one yr, not two
- if we keep TAC down,
- fish could have been offshore in 2015

[redacted] - do we have any preliminary TAC to get folks on the water in a few wks

Brian - most of fishery starts May 15
- one proposal: 18,000t
36,000t

[redacted] - will work w both sides

[redacted] - If we were to use 14k, would management look at that and use 8k again?

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Brian - we aren't assess anything
- I would assume TAC = what is counted

[redacted] NF - so where does TAC come from and when do we come out

Brian - TAC is less than one table
- I'm hearing 6k is not liked

Q - Given what we've seen on the water
- we recommend 20,000t for Gaspe
- So if Science wants 270 mm we'd support that

EAC - Stock critical, no rebuilding ~~plan done~~
(-WWF) - while egg survey has been ↑ since 2012
- no tolerance for decline
- lowest possible levels (8kt all in)

[redacted] - Can NL land 6k before declaring anything

[redacted] we are front line, we don't need protection from ourselves
- if we move to ↑ reporting, this should help
- if you set TAC below level we aren't taking whole picture

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- we should'nt be discounted b/c we are fishermen, science is doing best it can but too new
- I can't see it set below 14kt

[redacted] - I agree, 60 yrs fishing MKL.
- would describe it as passive. I think DFO should leave it alone + not monitor it. MKL from Gulf of Maine to NL.
Model is not credible. No one cares more than fishermen and fish, it is their future I believe ↑↑ biomass. Why were people shocked in 2016 when fish showed up. What is more at threat, Europe or her? No one can fish w pelagic trawl, can't aggressively fish them out
- need to count reported + unreported

① - I support 20,000t as posited by Gaspe
also raise size limit to 270mm

① (Maggies) - we agree 20,000t

Brian - Is this 20kt total or 20k TAC + undeclared? [total]

[redacted] - can we do the same as with herring

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Brian - So, a rec. for a 1yr-TAC ü a review by this committee

Q - we want TAC to ↑ to ü 24k
- Size limit - we sometimes see ↑ than 10% small fish so we want to see Size limit ↓ to 250 or less to ↑ viability of our fishery

[redacted] - PEIFA - 20, k all in
- ↑ in size limit
- want full reporty
- more enforcement
- review afte. 1yr

[redacted] - S.NB - we can't support a size limit ↑, but would be OK ü review afte 1yr

Q - Can you set it at 20k and ↑ if CPUE ↑↑

Brian - Science doesn't use CPUE but can review

APC - remind DFO to use science / PA when maky decisions

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[redacted] - we aren't convinced of Science?
- the chart doesn't reflect the stock, stock is self correcting

[redacted] (PEI) - will concur with FA + MFU incl 270 mm size
- I think 6k is quite a bit

Q- we fish opportunistically, by moon
- when fish are there they are there
- Wee need a high TAC to even get involved / viable
- we had too much fish last yr

[redacted] Prov NS - best avail Scie → 20k, all-in
- neutral stock recovery
- not reasonable to go below 14k
- so range 14-20k

Q- torn, we need data so we don't make mistakes hurt fishery
- need quota to be high enough to get good regional data
- ~~ee~~ conversations are eerily similar each yr, no progress
- I could support 20k figure subject to ↑ monitor
- lots of ~~optimism~~ optimism from fishermen but we need data to support this

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[redacted] - natural M ~ 20%, I don't get why F=0 just reaches LRP?
- min size is a real problem for my fishes. DFO is loony presence, what abt high-grading? Don't want to rec. TAC b/c not enough samples

Brian - OK so you don't agree w chart here. Science has said removing min size would result in an even lower TAC
- we are aware of discards

[redacted] - Also TAC doesn't mean it will be caught. Low TACs → rush to the water to get a piece
- Allocated TAC ≠ removals
- and if its taken its b/c it is there
- and fish don't live when they are thrown back (re: size limits)

Brian: Licensing - Access

[redacted] we want this looked at next yr

Gospe - TACs - we have to catch bait for next yr too

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Comité consultatif Maquereau

30 mars 2017, Halifax s.19(1)

Introduction

- Demande pour inclure un représentant de la pêche récréative sur le comité.
  - REFUSÉ. Restera observateur
- Demande de [redacted] pour faire une présentation.
  - OUI mais il parle en son nom personnel et ne représente pas d'association.
- Mise à jour sur la pêche américaine ?
  - Pas de gestion conjointe avec les EU. Collaboration uniquement au niveau scientifique

Louis ferguson (Agriculture NB), [redacted] (PEIFA), [redacted] (Cap Breton)

Sécurité en mer

- Nouveau règlement sur les embarcations de pêche
- Stabilité : bulletin en production pour informer des normes de stabilité pour les bateaux de plus de 9m
- Veste de sauvetage : obligatoire avec une force de 100Newton
- Embarcations de sauvetage : si -12mètre à l'interieur d'une zone de 25 miles avec radio et veste de sauvetage n'est pas obligatoire
- Procédures : Tableaux en ligne pour guider les pêcheurs afin de développer leurs procédures

Zone de protection marine

- Objectif de protection d 10 % , convention de nations unies
- Consultation en cours lors de la prochaine année.
- L'industrie n'est pas opposée mais les délais sont jugés trop rapides. Échéance non réaliste
- Barry group préoccupé par la main mise du gouvernement sur ce dossier. Le gouvernement veut imposer trop de règlements (T-C, environnement etc...) ce qui créé des inquiétudes dans l'industrie.
- C'est un engagement internationnal pour protéger les écosystèmes. Canada déjà en retard. Pêche = bien commun important de protéger.

Évaluation scientifique

- Évaluation de 2016 reportée en 2017 pour des raisons logistiques.

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- On parle uniquement de la composante canadienne. Pas de processus de gestion conjoint avec les américains.
- Données utilisées : 2013, 2014 2015 et 2016 (préliminaire)
- En 2014, le stock était évalué à son niveau le plus bas historique
- Problématiques de captures non déclarées (appât, récréatif etc...)
- Une seule population dans les eaux américaines et canadiennes avec 2 zones de fraie (sud du golfe et New-Jersey)
- Diminution de 50 000 t jusqu'à 8000 tonnes pour atteindre un minimum de 4143 tonnes en 2015
- Les débarquements aux EU sont similaires
- 4600 tonnes à T-N dont 50% vient de 3K
- La taille à laquelle les poissons deviennent mature a augmenté ce qui a amené un changement dans la taille légale en 2014
- D'un point de vue biologique, la taille légale est encore en dessous de la taille L50 et ne serait pas appropriée
- Dernier recrutement en 1999 mais les poissons n'ont pas dépassé l'âge de 6 ans. Il n'y a plus de vieux poissons depuis le début des années 2000
- Légère amélioration de la structure d'âge avec une plus grande proportion de poissons de 4-5-6 ans.
- Quand le stock était en bonne santé on avait des poissons de 9 10 ans !
- Grande différence régionale dans la structure en taille. Beaucoup de petits poissons dans 4R et 4T ne se voit pas dans 3K et dans 4S
- 3K toujours des poissons plus vieux et plus gros qu'ailleurs
- C'est en 2017 qu'on sera en mesure d'évaluer l'importance du recrutement de la cohorte de 2015
- Relevé des œufs permet d'évaluer l'abondance des femelles qui ont pondu ces œufs
- Indice d'abondance (SSB) entr 750 000 et 1 500 000 tonnes dans les années 80
- Minimum historique en 2012 avec 14 000 tonnes.
- Légère augmentation depuis 2012 pour atteindre 52 000 tonnes en 2016
- Prises totales = 150% à 200% des prises déclarées mais varie dasn le temps et d'une région à une autre
- Le nouveau modèle permet d'expliquer les variations en tenant compte des mortalités additionnelles (captures non déclarées, bycatch etc...)
- Selon le modèle on pense que les captures d'appât et de pêche récréatives sont restées constantes autours de 6000 tonnes
- Le nouveau modèle confirme que la biomasse reproductrice du maquereau a décliné suite à des taux d'exploitation élevés et a atteint son minimum historique en 2012 (20 000 t). Selon le modèle, la biomasse en 2016 était de 40 000 t.
- Point Limite de référence est de 103 000 tonnes. On est donc aujourd'hui à 40% du PRL.
- Stock dans la zone critique
- Scénario permettent de calculer la probabilité que le stock augmente et qu'il dépasse le PLR
- Avec des captures totales de 12 000 tonnes, le modèle prévoit que la SSB augmente à 48283 tonnes et 59000 tonnes en 2017 et 2018
- En 2019, la SSB serait de 77000 tonnes. La probabilité serait de 84 % que la biomasse augmente. Et on aurait 34 % de chance que la biomasse dépasse le PRL en 2019.

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Commentaires

- Difficile de prévoir le recrutement donc pas de projections à long termes. Les projections ne tiennent pas compte d'un potentiel évènement de recrutement.
- Relevé des œufs en juin, dépend des échantillons biologiques qui sont reçu plus tard pour interprétation. Trop tard pour faire des évaluations intérimaires
- Depuis 3-4 ans. Beaucoup de petits poissons tout au long de la saison qui ne correspondent pas avec les chiffres présentés
- Les petits poissons ne sont pas vus dans les données scientifiques. Ils ne sont pas disponibles à la pêche
- Reproduction sur la côte ouest et est de Terre-Neuve ? Il serait nécessaire de déployer plus d'effort pour trouver d'autres sites de reproduction.
- 3K il y aurait beaucoup de maquereaux de grande taille, plus vieux
- Maquereaux européens ne sont pas forcément plus âgés dans leur capture. Ils ont pourtant une biomasse énorme mais pas de vieux poissons.
- Débarquement américains : https://www.greateratlantic.fisheries.noaa.gov/aps/monitoring/atlanticmackerel.html
- Depuis plusieurs années, beaucoup de différence entre ce que les pêcheurs voient et ce que les scientifiques observent
- Industrie de T-N pense qu'il y a beaucoup plus de maquereau que ce que les scientifiques observent
- Depuis 2010, la diminution des captures reflètent quand même les tendances observées par les scientifiques.
- Pas de capture par unité d'effort pour le maquereau pour ne pas biaiser les résultat d'abondance à cause des changements dans la distribution spatiale du poisson. Il est vrai que parfois le poisson est plus difficile à capturer mais l'abondance n'aura pas diminuer pour autant !
- 2016, capture totales de 14000 tonnes. Le modèle a ajouté 6000 tonnes aux captures décalrées (8000 tonnes) pour mieux estimer les observations dans la structure d'âge.
- Pas de taille minimale aux EU

Surveillance et Monitoring de la pêche

- Règles actuellement en place
- Les récépissés d'achat sont devenus insuffisant en 2016
- Impossible de continuer avec le système actuel
- Pêche à terre-Neuve entièrement contrôlé (hail-In) avec en plus peu de pêche d'appâts dans cette région.
- [redacted] (PEIFA) prêt à travailler avec le MPO pour une implantation totale des journaux de bord en 2017. On parle de rapports mensuels transmis à la compagnie de vérification à quai.
- RPPSG : Propose le eLog pour suivre les transferts sur l'eau
- [redacted] (Nouvel Ecosse). Il y a des journaux de bord. Ne comprends pas pourquoi la situation est si différente d'une région à une autre.
- [redacted] : tous les outils sont en place le MPO doit les faire fonctionner. Il faut que les pêcheurs démontrent d'où viennent les appâts utilisés

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- LE MPO et les pêcheurs doivent s'attaquer à la problématique des captures non déclarées
- [redacted] (Cap Breton). Parle d'accélerer la période de remise des rapports. Si le journal de bord n'est pas remis, le permis ne sera pas renouvellé l'année suivante.
- Prendre en considération les coûts des mesures pour ne pas mettre en danger les pêcheurs.
- Demande une harmonisation autours du golfe. La déclaration des données est un enjeux pour le MPO et pour les pêcheurs.
- Les pêcheurs d'appât à grande échelle est un problème. C'est devenu un commerce. Besoin de mettre en place des outils qui vont véritablement refléter ce qui est pêché. Il va y avoir un besoin de plus de surveillance ! Oui il y a un coût mais il ne faut pas que les mesures soient appliquées dans une seule région.
- Il y a un impact sur le stock. Les deux parties ont un rôle à jouer.
- Grosse préoccupation par la surveillance. Pas d'infrastructures pour rapporter les informations.
- L'importance de la surveillance n'était pas soulignée dasn le passé.
- Surveillance à quai ne semble pas adapté à mettre en place
- Hail-In et journaux de bord
- Solution aux problèmes de journaux de bord : Faire la promotion des journaux de bords. Besoin de communiquer le journal de bord de l'année précédente avant que le nouveau permis puisse être remis.
- En plus d'améliorer les statistiques sur la quantité, il serait important d'améliorer les données sur la taille des maquereaux débarqués.
- Demande pour que le MPO investisse pour développer les elogs de la part des pêcheurs gaspésiens
- Registre électronique très peu couteux. Le MPO évolue vers cela. Est-ce qu'on serait capable de le mettre en place en 2018 ? Le MPO va consulter l'industrie pour mettre en place ce registre éléctronique dans l'industrie.
- Comment encourager l'industrie à faire des déclarations pour la pêche récréative. Besoin d'envisager un système de déclaration pour les pêches récréatives.
- Il y a aura un changement réglementaire pour 2018 (mise en place de saison, instauration d'un permis de pêche avec limittes, déclaration des prises etc...)
- La fédération de la nouvelle écosse des chasseurs et pêcheurs compte 6500 membres.
    - Problème pour les pêches récréatives avec des pêcheurs qui capturaient 200 à 300 poissons qui etaient ensuite vendu au niveau commerciale
    - Permis permettrait de financer de la recherche
    - Abus pour la pêche à l'appât
    - Inquiétude d'être associé aux déclins des stock alors que la plupart du monde son des pêcheurs commerciaux qui pêchent de l'appât.
- Surveillance à quai va nécesister des centaines d'employés
- 50$ de Hail In, 25 $ pour les logs book
- L'amélioration aux journaux de bord est attendue depuis longtemps. Smartphone peuvent fournir beaucoup d'information.
- Surveillance à quai pour les petits débarquements est très cher !! 90 $ par débarquement
- Demande pour OBLIGER la déclaration mais pas forcément mettre la surveillance à quai partout.

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- Pour le commercial c'est le travail de C&P de vérifier que les journaux sont bien remplis, c'est une condition de permis !
- Problème de transmission de l'information sur le site web du MPO. Il y a un problème de communication évident. Est-ce que c'est le MPO qui a le droit de décider qui peut participer au comité ?
- On acceptera pas ce qui pourrait faire en sorte que les petits pêcheurs ne seront plus rentables
- Des discussions auront lieu pour voir où c'est possible d'implanter les journaux de bord électroniques dans les prochaines années.
- Dasn le sud du golfe, on aura des changements significatifs. Ca va être différent de juste les récépissés d'achat
-

Discussion sur le TAC

- Point de référence Limite = première étape pour l'approche de précaution. Délimite la limite entre la zone critique et la zone de prudence. Basé sur le rendement pas recrue = 103 000 tonnes
- [redacted](PEIFA) : problème d'intégrer les prises non déclarées dans le TAC. Est-ce que le 6000 tonnes
- Si on améliore la surveillance et qu'on réduit le volume des prises non déclarées, cela aura un impact sur le TAC pour les prises commerciales.
- Le tableau sur les scénario n'est pas jugé correct par certains membres de l'industrie.
- Demande pour plus de souplesse. Crainte que si on fixe un TAC, qu'on perde les poissons l'année prochaine.
- ILS ONT VU DU POISSON À TERRE-NEUVE !!!! ils demandent 36 000 tonnes de TAC. Sont prêts à travailler fort pour recueillir toutes les informations
- Le TAC doit être basé sur les captures qui seront déclarées uniquement ! ce qui veut dire que si on fixe un TAC de 14 000 tonnes, et qu'on admet que 6000 tonnes ne sont pas déclarées, il faut considérer que le taux d'exploitation est celui calculé pour 20000 tonnes
- Gaspésie demande 20 000 tonnes de captures totales (déclarées et non déclarées) avec une possibilité d'augmenter la taille minimale à 270 mm.
- Écological center selon l'approche de précaution, toutes décision devrait être prise pour faire en sorte que le stock sorte de la zone critique le plus rapidement. Le TAC total déclarée et non déclarée ne devrait donc pas dépasser 8000 tonnes.
- Cap-Breton, beaucoup de contestation des chiffres présentés par les sciences si le TAC est trop faible, les quotas vont être attrapés trop rapidement. Selon eu on ne peut pas aller en dessous de 14000 tonnes
- Barry group : Maquereau =pêche passive, petits engins et peu de captures accessoires. Achete énormément de homard. Comment est-ce que du maquereau peut etre présent de Terre-Neuve au Maine et avoir pensé à des biomasses aussi faibles que 8000 tonnes et même 4000 tonnes.

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Complétement en désaccord avec le modèle. Pense que la Biomasse est beaucoup plus grande que ce qui est présenté. [redacted] appuie la recommandation de la FFAW de 36000 tonnes.

- Demande du RPPSG jugée raisonnable par le MAPAQ et encourage le MPO a aller de l'avant pour améliorer le monitoring d la pêche.
- Les Îles de la madeleine se rangent du coté du RPPSG.
- D'accord avec 20 000 tonnes au total
- [redacted] demande une analyse des débarquements dès l'année prochaine. Le TAC est donc recommandé pour un an.
- Augmentation du TAC à 24 000 tonnes. Demande pour baisser la taille légale à 250 mm
- PEIFA [redacted] D'accord avec 20000 tonnes et augmentation à 270mm. 1 année avec examen au bout d'un an
- Sud NB- pas d'accord avec l'augmentation de la taille. D'accord avec les 20 000 tones et examen au bout d'un an
- Atlanctic policy congress : Le ministre doit tenir compte des avis scientifiques.
- PEI province : D'accord avec PEIFA et UPM avec reticence. Demande un examen après un an.
- T-N demande un TAC élevé pour avoir plus de poissons. Pêche différente du reste du golfe
- Besoin d'un quota suffisant pour permettre à tout le monde de pêcher. Mais déchiré et frustré après les commentaires qui se ressemble année après année. OK avec le 20 000 tonnes si on arrive a avoir de meilleures informations.
-

RÉSUMÉ

- T-N 36000 tonnes de TAC + prises non déclarées
- PEIFA, QC, NB, UPM : 20 000 tonnes au total avec augmentation de la taille pour PEIFA et QC mais pas pour NB
- Ecological center 8000 tonnes
- Minimum 14000 max 20000 tonnes tout compris.
-

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Recommendations to the Atlantic Mackerel Advisory Committee meeting

March 30, 2017

On behalf of the Ecology Action Centre and WWF-Canada I would like to read the following statement and recommendations to the Atlantic Mackerel Advisory Committee:

We are pleased with the progress made this year in improving the stock assessment and incorporating a model to better account for unreported catches. We also recognize that the fishery is managed across the Atlantic region without allocations by province or region and that the fishery is important both as a directed fishery and essential as bait for many of the owner-operator fishermen.

However, we want to reemphasize the fact that the Atlantic mackerel stock is in the Critical Zone without a recovery plan in place specifying clear objectives with, at a minimum, a target biomass goal beyond the limit reference point, a desired time to reach this target and an acceptable probability risk to reach this target within the agreed timeframe. **Without this information, any management decision for this fishing season remains ambiguous.**

Moreover, the issue of unreported and unmanaged catches has been raised repetitively over the years and we are concerned with the striking differences in these catch levels across provinces and differences in monitoring requirements and reporting methods across DFO-regions.

While the egg survey abundance index indicates a slight increase from the lowest levels of 2012, we want to remind the committee that the science information also notes that the value remains far below abundance levels from the 1980s and that the stock remains well under the limit reference point.

At this point, according to DFO's Precautionary Approach Framework any management decision should promote stock growth out of the Critical Zone by ensuring removals from all fishing sources are kept to the lowest possible level until the stock has cleared

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this zone. There should be no tolerance for preventable decline and this goal should remain the same whether the stock is declining, stable or showing signs of increase.

We urge DFO to:

- Evaluate catch monitoring across DFO-regions and implement a uniform and consistent monitoring system for recreational and bait fisheries across provinces and regions, and where necessary, implement catch control measures in these fisheries.
    - These could be through e-logs, weekly paper log submission, daily hails, dockside monitoring or other methods that are practical for the fishermen and also fulfill data collection requirements for science and management.
- Ensure that the 2017 TAC, including "total declared and undeclared catches", not exceed 8,000 tonnes as the stock remains in the Critical Zone and is in need of immediate rebuilding. This TAC would allow at a high probability (89%) that the spawning stock biomass remain above current levels by 2019 and would be consistent with the Precautionary Approach in:
    - Promoting stock growth;
    - Including removals from all fishing sources, and;
    - Preventing, at a very low risk level, any further decline of the stock.
- In consultation with stakeholders, develop and agree upon a recovery strategy with clear short and long-term objectives specifying a biomass target, desired time to reach this target and an acceptable level of risk to guide consistently subsequent TAC decisions. Recovery objectives should also look beyond biomass targets and consider broader stock and ecological goals to progress towards an ecosystem-based approach to fisheries management.

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0900 AMAC - Halifax, NS

Date March 30/17

Opening Remarks

⇒ 1st face to face since 2014 — few issues to be potentially added

⇒ Add "Rec" to table to represent Rec Interest? Thoughts of committee:

- [redacted] — No
- [redacted] — Yes (Now)
- [redacted] — Agenda — No
- [redacted] — Maybe structure of AMAC needs a review — but is there a structure that represents all "Rec fishers"??
- [redacted] — No — they can be observers + have opportunity to ask questions/comments — needs more discussion

⇒ Add Presentation from Fish Buyer — 5–10 mins before or after Lunch

- Thoughts?
- [redacted] — As long as it is important that it is HFX Terminal rep
- [redacted] — Keep to 10 mins! — Remember individual not representing industry
- [redacted] — Question on whether he represents an individual.

Additions from floor:

[redacted] ⇒ Collaboration with U.S.A — can we get update?

A) Tomas will speak to it in science presentation.

B) Spring fishery this year better than last → 3000 on the websi

---

T.C. — N. Munroe — presentation from TC on "SAFETY AT SEA" and new regulations coming into July effect.

- ship SAFETY Bulletin on Stability coming out.
- PFD/life jacket — mandatory for all persons on deck.
- life Rafts + EPIRBS — over 12nm and outside 25 mile — mandatory

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Date March 30/17

Brian – Review of MCTs – High level Summary,

- [redacted] – time lines are too optimistic for 2017 implementation.
- not enough time for consultations & comments
- Need more time (not necessarily opposed to concept but timelines)
- [redacted] – Concern with Gregory hand if you'll to find reasons to create regulatory environment – whether MCT, MPA, TC etc.
- [redacted] – E.A.C. supports M.C.T.

Science Update (Tomas) – PPT

Questions/Comments:

NL: [redacted] – Talk of more research + science – good to see the effort going into this
- Prov NL support + fund White Bar + NOR surveys
- 2015 Yr class – is growth result of 2015 Yr class?

Science Short Ans: for most part – "NO" – Talk dip in Egg Index + 2 Yrs in Age

Que: [redacted] – You said it takes 2 Yrs to see Age groups change – But Committee is only 2 Yrs – should committee be year to year to assess impact of 2015 Yr Class?

Science – we need to analysis bilgical samples before we can provide advise – thus means likely unable to do interim Yr Assessment.

- If you do egg survey how many months later you do samples??
- Samples taken that season but analysis not until fall/winter

NL) [redacted] – Small fish seen on water – Alot of it. This doesn't give with science has put up.

[redacted] – we don't see the small fish in the scientific data. We have to wait until they are older and we do analysis. In 4R in 2016 we did see a strong signal of small fish,

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con't) But this doesn't change science objectives

NL) [redacted] — Mackerel show up when they want — we landed big fish last year — what year class were those?
→ Age composition for large fish need OTolith analysis to confirm.
→ As a pattern what you say doesn't contradict Science observations.

NL) [redacted] — Spawning can change - mackerel can hold spawn long periods. — may be hard to "guess" when/if spawning occured.
— Surveys this past show that West Coast NL has mackerel larvae found. Anecdotal info suggest spawning in southern NL & SENL. But may be hard to find at given time. Add'l effort required to analysis this large area — Science currently only scratching the surface.
— Age survey — you say can't find 7, 8, 9 yr old but we seeing them at the plant. They are still at the plants.
— In European Mackerel plants I don't see "large" fish either but they have huge biomass without the "old" yr classes — how can this be explained

Science → Data on screen is sampling of commercial catches
→ Large portion of catch came from 3K last year and traditionally is more older fish. We getting more 5, 6 and some but can't explain why we see differences if we sampling Commercial
→ Age structure in Europe is skewed to younger fish but yet they have high biomass — not sure how we this has correlation to N/A

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[redacted]

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AMAC HFx

Date March 30/17

[redacted] - why make big deal about Large fish if this is not issue in European stocks?

[redacted] - E.A.C. - Slide 10 - 50% maturity - Are you saying current size is not protecting maturity?
Science: no - but says it is very close to border - Decision to increase was good reason - that size limit is Appropriate.

[redacted] - With sample taken in NL - How do you "weight" sample?
Science: weighted by "size of catch" in each area. Areas with biggest landings carry most "weight."

[redacted] (Maritime Provinces) = Egg Survey - Large Sampling series - back to 70's or 60's?
- Have you overlayed Ocean Temp over to time series to correlate Envir factors that affect spawning Activities + Areas?

Science: we monitor Env. in S. Gulf. - Surface temp. Temp is important for survival for adults + spawning. We have science assessments underway to look into impacts on Env. factors - 2 phd candidates doing studies on this now.
Spawning has clearly changed - but why? Is it prey change or Env factors or other (eg. right food @ right time)?
Temp is one parameter but you need to look at other things like plankton availability.

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A.M.A.C. Hfx

Date March 30/17

[redacted] — Declared vs undeclared catch in NB - Cluny?

Scania — 3% declared — 97% undeclared (or respondents)

— slide 21 — Red fish / Bait fishers also the buyers declare in NB not the fisher so this is why respondents report as "undeclared".

[redacted] — Last few years debate between what "fishers see" + what "Science see" — Even with new relaxations still large gaps of information — big disconnect on "Volumes of fish" — we caught 8,000 mt of fish no problem with thousands of pounds of fish left in the water when fishery was stopped last year. Need to be discussion on how to reflect accurate #'s.

Science ⇒ Previous yrs the frequency of landings followed trends in survey models (not necessarily absolute #s, so were in sync — last year 1st time TAC caught.

[redacted] ⇒ Productivity moment — how the "inshore" is put into model. What happens if fishery shut down and no science caught after closure to provide data? Difference each year as to where the fish are swimming — some years in along shore, other years in the offshore. Modelling trend was going down but last year we don't know if going back up because you shut it down before end of season.

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AMAC HFx

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Science – Productivity – true the model predicts higher biomass overall because it accounts for unreported but model does not consider Effort (CC/unit effort) so stopping fishery did not impact model estimates.
– Point on distribution of fish – good point and this why we do not use catch per unit effort in model because it would create illusion of change in pop'n because of fish movement – not distribution geographically.
– Surveys done on West coast NL found Lance (few years) but it amounts to ~1% – maybe in past Coyle years it has increased – new surveys will tells

[redacted] ⇒ "Greenland" slide – we are seeing westward movement of fish – how does this fit into next assessment.

Science – Genetic study – if it is proven that part of catch comes from another stock we would have to proportionally build this into the model.
– That would be a MAJOR funding! Would change assessment process if 2 stocks vs 1 stock contributing to catch.
– Same issue with Cdn fish migrating to USA if catch in USA winter fishery.

[redacted] (PEI) ⇒ Total landings last year? (declared + un declared)
[redacted] (Are you saying 8000 landings declared + 6000 other?)
Science ⇒ Model estimates 6000 mt of "other" removals (for total ~14,000)
⇒ Est biomass for June 2016 based on egg biomass was 40,000 + for beginning 2017 would be ~48,000 biomass.
⇒ Tomas explains how "6000" estimated.

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AMAC HFX

Date March 30/17

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- Does USA 1999 year class issue appear in USA and subsequent years?

Steve - USA does different Calculations but generally trends seen in Canada are seen in USA.

- You can see strong recruitment episode even when you have low biomass but they are more frequent when in the middle of the range. (Higher probability it happens when alot of fish, (doesn't seem it won't happen at lower #'s).

⇒ Effort last Yr + large fish - we seen last year that alot of marked after Golden past by (end June) the marked were small of spawn ⇒ By time fish arrived (large fish) but season was closed by time big biomass of big fish. It might have been in deeper waters last years + inshore 2016 - no real pattern - they show you when they show you. Ten / night you can get 3000 mt in one fleet but then the marked might disappear and not be seen.

Science ⇒ Big ocean out there - marked are schooling fish, very fast and highly migratory - can be differences year over year. Science info may be lagging after you see it in water to appear in surveys.

⇒ you cannot deplete the stock - if we fish when it appear then they come some yrs not others

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[redacted]

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AMAC (HFX)

Date March 30/17

[redacted] (Bay of Islands)

- Genetics? — US vs Can — we not far apart.
- Plant workers can tell that fish from west side or east side of the Island — it is physically different in appearance (is it genetics?)
- East side fish is shorter + chunky; west side is longer and slinky.
- Can fish not going to USA — No big fish in USA catches showing up in plants. Not convinced it is all 1 stock.

Science: Very interesting comments that you always seem those differences.
: we starting genetic study on 3K + 4R fish - stay tuned
: There is some pop'n "sub-structuring" — but does it impact the fishery?

[redacted]

⇒ Size — Arrival timing — 2010 was last particular ⇒ year before last year — all other years the fish were all small year last year they all big? How do you explain this? TAC wasn't issue in Div 3Ps because mackerel did not show up to catch — HIGHER TACs did not change stock — CPUE mackerel 3K — 2600mt caught quickly but if it was traditional fleet 10 hrs ago we would of caught it in 1 night. The mackerel last fall were around all fall — long period of time. TAC is killing fishery — log in Swans means when we figure out there is high pop'n the mackerel will be gone — So we have quota + No mackerel or No quota + lots of mackerel This is the cycle we are in!

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AMAC (4X)

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Science — don't agree with statement on vicious Crude — if stock rebuilds there will be TAC to catch.

— 3K is a very variable area for Mackerel — True.

[redacted] ⇒ Egg survey — some stations — sometimes each year?

Science ⇒ Yes generally — cover entire area in about 1 wk.

[redacted] ⇒ But wouldn't time change dispersion input this? Shouldn't it move — fishers move to find where the fish are.

Science — timing — we can estimate peak of spawning season but it is about same time every year.

— Space — within S. Gulf we have good handle — we do not see shifts in geographic area for spawning.

— Mackerel must have right conditions to spawn.

[redacted] (NL) — Is it possible to predict how much fish would have been landed if fishery remained open?

Science ⇒ no way of knowing this.

— Can't you predict from mackerel tips on how much fish is coming in per day + extrapolate?

Science: 1st time TAC was caught so no prior indications to compare

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[redacted]

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AMAC - HFx

Date March 30/17

[redacted]: Based on what we know is going on in 3K + 4R (Henry Gilbey)
- Mackerel avoided gf to December last year - if not stopped total landings 30,000 – 40,000 could have been landed
- Question about USA estimates / assessments and why different
Seeing Science pattern?

Science – USA changing stock assessment methods.
- US have seen shifts in distribution in winter but their current view of stock is that abundance is decreased.

[redacted] – SW NS Maritimes
- want 2 seats on body – 1 for Gulf + 1 for NS.
- Page 20 slide – SW Comes N.S
- Been fishing since 1605 – long history
- Multiple trans boundary stocks in our areas
Most of science based on "Gulf" spawning areas
- But is the mackerel in Gulf of Maine / Bay of Fundy from [redacted] southern spawning stocks.
Science – view that in winter Mackerel migrate south out of the gulf – including fish caught in SW NS. In spring can fish migrate back into Gulf. But there can be some mixing and we are Analysing this.
[redacted] – Fishers are prepared to cooperate with Science to collect samples & help

Observers [redacted] – Buy & sell fish for Bait – last yr 1.7 million Bait fish sold. Bought 1 million pounds of mackerel in recent yrs.

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AMAC (HFX)

Date March 30/17

[redacted] (Con't)

— Requested sent at table from Minister but no answer

Slide 14 — done in June — is it done a week.

Suzie: Yes generally

How long is the day survey for egg survey?

Suzie: it is round the clock 24/7 survey.

How long on 1 site?

Suzie: each station takes about 30 minutes

: Alot of steaming between sites

: Take temp + salinity profiles

: Timing About same each year + Assess after to just to collect in peak of spawning.

Brian => DFO USA — Joint "Assessment" possible in 2019 to look at mixing of fish — it is science — not "Joint Mgt" (heard before that Committee not interested in Joint Mgt)

~~[redacted]~~

— After lunch

— [redacted] — Presentation by observer using big balls and small balls as proxys.

— wants to sit at table given the investment he has done

— wants to form a committee (W.G.?) to further look into issues.

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AMAC – HFx

Date March 30/17

[redacted]
- Can't Regulate a fishery by "10%" size Count (10% by count could be only 1% of total weight)
- You can't have a pelagic fishery using the size/count restrictions – Makes entire fishery illegal
- Supports the points being made by Ryan L.

T.A.C. Discussion & Slide with various TAC displayed.

[redacted] ⇒ What is the reference LRP by Science
Science: - LRP is 1st step in establishing PA.
- Boundary between Critical Zone + Cautionary Zone. (Yield per Recruitment)

[redacted] (PEI Fishery) If TAC Accounts for undeclared + declared then we really took 14,000 mt (not 8,000 TAC). Need to keep this in mind as we go forward, with mgt measure discussion. Need to discuss mgt measures 1st before TAC.

Science: Model estimates how much "undeclared" catches in the past but Model cannot estimate in the future if undeclared catches. But if undeclared become declared in future then science cannot predict that.

Chair – should we discuss MgT measures 1st?

→ Scotia Purchase slip monitoring is something that needs improving to move to real time.

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AMAC - HFx

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Date March 30/17

What can be improved for monitoring in 2017 on #'s and timelines?

[redacted] (PEI) Full implantation of logbooks for 2017 - (never have that in the past) - fishers support this.
⇒ Monthly reporting to area to forward on to DFO (same as bait licence requirement).

[redacted] ⇒ Gaspe Bay Coast - 100% Logs / Hail 100?
- use electronic E-LOG
- Lobster fishery declare their bait.
- want others to try things like this

[redacted] - we have a logbook in N.S.
- why is it different across Atl. Canada?
- why is it not the same? Why do some not have to report timely?

Chair: NL - mid 2000's on - majority of catch from NL - DMP + Daily Hails evolved in NL.
NS-NB-PEI: Consistent fishery over the years

[redacted] - Southern Gaspe - All tools are in place but DFO must put them to work. Why is there not a 100% Hails; why not logs? All fishers must prove where they got their bait. Can't set TAC's without knowing this.
Chair: Fishermen have bait info + need to submit it

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AMAC Hfx

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Date March 30/17

[redacted] (Cape Breton)
- We talked Regionally of accelerating reporting,
- If people don't submit logs Thurs don't issue Conditions
- Costs AT end of day — if you catch big fishing then it imposts greatly but the little catches had logs as well, Cost of fishing might be more than

[redacted] (EAC)
- Pleased with progress made
- Unreported + unmanaged catch — concern with different catch monitoring — need uniform + consistent catch monitoring across fisheries.

[redacted] (Quebec)
- When will everyone provide their numbers?
- Fishers now putting fish in reefer for next year so don't have to go to plant
- DFO has to push hard to get numbers

Chair: DFO/science/fishers all benefit from clarity on what is being caught — this makes the models work better. If fishers have own bait system then need to capture this.

[redacted] (NL)
- Some of bait fishery has become "commercialized" - this is beyond personal use — it is a business, DFO needs to get handle on this and put something in place to get handle on the numbers and also on the "non-personal" use of bait.
- NL had to adopt to weight of fish but Rest of Atlantic Canada are not and it is causing problems now. Need everyone Report. to real time.

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AMAC HFX

Date March 30/17

Make everyone Accountable. 6,000 nt is "Commercial" - not personal use.

[redacted] (NL)

- What consistutes a "bait fishery"? If I catch mackerel + sell to [redacted] who sells as bait is it a bait fishery?

Answer in NL if sold it is commercial use + captured. Personal use bait is limited by gear and quantity per day. Can't transfer, can't sell, personal use only.

⇒

Southern NS fishermen

- Darkside Monitoring - Concerned with this movement
- Logbooks good - fishers supposed to monitor this!
- not enough infrastructure to have DMP everywhere
-

[redacted] ⇒ Tone seems to be that we trying not to report - this is not the case. One time couldn't afford to run freezer all winter but now it cheaper than buying bait. Fishers need to report more given the situation that we are in - critical that it report timely.

[redacted] - Only N.S. - DMP may increase in "reported" landings but at same time if it cost 60¢ for Monitor and you only have small # of mackerel than you will dump over and won't count those fish. But if log it will be completed - Just need to get submitted

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AMAC-H Fx

Date March 30/17

- [redacted] NS - have 100% hail in and 100% logs
- This is in place - it is simple - why cannot this be done everywhere.

- [redacted] possible solution in Gaspesian in Summers
- many years had problem calculating landings
- promoted logs - but low response - now cannot renew license without logbook submission
- Do this elsewhere.

- [redacted] In addition to improve statistics on quantity you Also need to improve data on size
Need a monitoring system that tightens up reporting and on size of fish.

(Que) - GoogleBay - using simple application for reporting electronically - works well Need to have dept to put $ into recving but it is inexpensive and quick to use.

Brunswick: Mackerel is area E-logs can move to - could look at other models - would eliminate time and paper - may be able to look at next year or next year. Benefits industry + DFO.

(E-LOGS)

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AMAC - Hfx

Date March 20/17

9. - Reporting for Rec fishers — How do capture this? May not be big tonnage but do need to get a handle on this catch — esp when quotas are being taken.

Chair: 2018 - looking at measures to bring in seasons and limits for 2018 and/or maybe rec licence which would include rec. reporting

[redacted] - Rec Rep:
(fed. hunters & fishers)

- N.S. fed of Anglers + hunters - 6500 members
- founded in 1935 — we do reviews
- Members don't always use Maritime for bait.
- Catching 200 - 300 fish for bait + selling for bait in Striped Bass.
- Issue with circumventing size by filleting/hiding
- Rec licence in salt water is good to get stats and information.
- Abuse in bait fishery is ongoing
- Auto de-hooking takes face off mackerel + small fish being destroyed and thrown back dead.
- DFO should look into this.

[redacted]

⇒ Reporting — Quality of Reporting
⇒ If need observer every offload it will take alot of people and they do not exist in numbers required.

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AMAC HFx

Date March 30/17

- Before 50$ hail + 25$ for Paper log book (3-4/Yr)
- E log only $65 and everything included.
- important to serve the Science + this is cheap way to do it.
- Quick and easy to fill out — self populate common fields
- Scaled photographs can be taken on Android and submitted to Science as well.

(observer)
- Waiting for improvement in logs for a long time
- E-Logs on I phones is way to go
- ORP of small landings not feasible — it is 90$ per landing and cost inefficient.
- lack of data is because there isn't a requirement to log it.
- we are willing to help Science — we willing to sample — Willing to log but can't have ORP in small scale harvest because Cost not realistic for size of catches.

Maritimes Fishers Union ⇒ MFU supports what [redacted] said.

[redacted] - PEI ⇒ Is there a minimum that DFO wants? When will dept decide? Need infrastructure in place?

Ans: Regional Reps will discuss w/ HQ Fleet.
Pierre already started discussions on what can be done in 2017. Acknowledge that there are "infrastructure" issues and time issues.

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AMAC-HFX

Date March 30/17

[redacted] ⇒ Concern with accuracy of the info in the chart on SSB and Exp Rate. More respectful of fishery but it is not the full picture — can't focus TAC discussion on this chart.

[redacted] → 2 Questions —

1) Precautionary Approach will be used?
2) Minimum size — do we include? Does it impact on chart? Ans: Yes — impacts chart.
3) Are we addressing "recreational" fishing?

[redacted] (Clarification Needed)

⇒ Chart on board (lost in dust) — Need to know...
⇒ When we talk "TAC" are we going to speak to "regulated catches" or "All catches"? (biden's all removals)

Hypothetical situation — last yr took 14,000 mt (6000 + 8000)
⇒ Is DFO prepared to allow industry higher TAC this year to account for "total" catches?

[redacted] — NL Fishers — last year fish was there
⇒ 36,000 mt — middle of road from previous high + last year.
⇒ Can we have mty this year if we see lots of fish after quota reached still around? Need to be able to access the fish.
⇒ Monitoring — Hail in catch regardless how much you have on board — easy to do — inexpensive. Just require 1 person in an office.

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AMAC - Hfx

Date March 30/17

[redacted] - 2017 - Talking fishing in 2017 - when will TAC + Season be in place?
Ans - Fishery normally May 15th start
- will try to get some decision in late April.

[redacted] - A lot of Reflection on this fishery
- Support what [redacted] has put forward (Even if off chart)
- Will support getting info for science (Sample + Info)

[redacted] ⇒ If we go with "14,000" - would not look at that and say that 6,000 is undeclared + Commercial gets 8,000 ??
Ans ⇒ "TAC" is substantiated based on declared

Que [redacted] ⇒ Every year we Recommend 2000 mt for Cape Bay.

[redacted] ⇒ Read prepared statement.
(EAC) "2017 TAC not exceed 8000 mt (declared + undeclared) because stock in critical zone."

[redacted] ⇒ [redacted] recommended 36,000 - Not bad recommendation.
⇒ Can we land 6,000 mt undeclared to be on same field

[redacted] ⇒ Fishermen are ones who suffer from decline in fishery.
⇒ we don't need protection from ourselves. We can disagree with Science - They are relatively ALOW - Fishermen on the water always and see everything that happens.
⇒ If we move to increased monitoring we lower the uncertainty

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AMAC – Hfx

Date March 30/17

- we should not set TAC less than what it was the last few years. (14-15,000) And it is more likely it is higher than there as we do more monitoring + better science.
- don't discount what fishers see out there.

[redacted] – Agree with comments groups made.

– [redacted]

– You can catch a mackerel Monday to Sunday every year in my life time.

– DFO hasn't monitored for 50 yrs and should leave it alone – only small fishery overall – "passive fishery".

– Mackerel in Digby were always "Tinker Mackerel"

– Respect the efforts but don't respect the chart presented – Chart is not credible as a model.

– Biomass is much more stronger than science believes

– Recommendations + Comments in 2015 Reflect Mackerel Around (but small in alot cases).

– Recommendation:

Support the FFAW – 36000 mt (incl. Aggorted and unreported catch)

[redacted] LWS(?) ⇒ 20,000 mt Recommendation

[redacted] ⇒ TAC 20,000 mt

⇒ Min size at 270

[redacted] ⇒ 20,000 mt Agree with Colleagues of PEI

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AMAC HFx

Date March 30/17

GNS - Holli ⇒ support 20,000 TAC (all in - included undeclared)

[redacted] - science report every 2 yrs - but need to set TAC 1 yr + have review if fish landed next year. That gives DFO 1 yr to get fish declared.

[redacted] ⇒ ↑ 24,000 mt for next year
- Site limit of Mackerel needs to decrease to make industry viable (250 mm or less)

[redacted] ⇒ Support 20,000 (all in)
- 270 mm min size
- Full reporting
- Enforcement on min size
- Review in 1 yr.

Southern NB - Can't support size increase but can support 20,000 mt with review at end of year.

[redacted] NL ⇒ Can we adjust TAC in season if allocation of fish?

[redacted] - APC ⇒ Remind Dept to take into account obligations in fisher minister mandate letter. (Indigenous Access)

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[redacted] => Limitation on fishery is the available Amounts => Mackerel is Pulse fishery — Chart doesn't reflect diverse

MFU => PEI FA recommendation of 20,000 Supported

PEI => Relevantly concern with TAC Removal including 270 mm Logs + Reporting + 1 Yr review

[redacted] => NL fishery is different — history of opportunity — They are there or they are not. Can't go out whenever you want and catch Mackerel. We need higher TAC — to be involved we need high volume to make the fishery visible for us. We go years on NE Coast with Zero catches then get a boom year — the fishery is self regulating. Last year we had too much Gaspé and TAC was taken — this is causing the discussion today.

[redacted] - Best Available science — All in high of 20,000 is "Stock neutral" according to chart. This would be upper limit. - Not reasonable to go below 14,000 mt. This is the range. (Stock neutral to 50% biomass)

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AMAC Hfx

Date March 30/17

[redacted]

⇒ Torn on what to make as recommendations on TAC. But we MUST measure the quantity landed and the size of fish. Maximize the information collected to better manage the ~~GS~~ fish stocks.
If you cannot measure it you can not manage it.
Support 20,000 mt but only if you Report everything and measurements collected.

[redacted] ⇒ no TAC recommendation because we don't have the science.

[redacted] ⇒ TAC setting – just because Allocated don't mean it will be caught. If only small TAC you get "Rush" mentality and every goes out and fishes right away.

SUMMARY on TAC Recommendations

one: 15,000 – 20,000
most: 20,000 + other conditions
Isa: 24,000
NL: 36,000

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AMAC - Hfx

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OTHER Mgt Measures

GNS [redacted] — Need Access to bait — need hook & line and Gillnet — need both — easier to control catches on H+L

[redacted] PEI FA ⇒ Add gear type of Hooks to gear for bait if Commercial fishery closed.

[redacted] ⇒ support Zone 16 + 3 nets for bait — but want to get hooks for bait. (How many hook or gear)

[redacted] ⇒ Options of 200 hooks for commercial fishery — but for bait fishery how many ??

NL - [redacted] ⇒ 60/40 — highly migratory stock — can appear in ~~[redacted]~~ any catch. No Advantage to break down divisions

NL - [redacted] ⇒ Highly migratory stock. Our position (Laya Sean) is that if we don't get mackerel we will allow others to take it. But we want the TAC taken but some years the mackerel is not in our waters — Maybe 3K take it all and 4K get none — so be it

Maggies — 3 nets for Bait for Lobster (May - June) — After Lobster — catch mackerel in Sept for the following season — so if TAC taken early we can't get Bait.

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[redacted] – Little to revisit the TAC for next season after catches from this year is assessed.

– only want a 1 Yr TAC – not multi year – do evaluations after the season is over.

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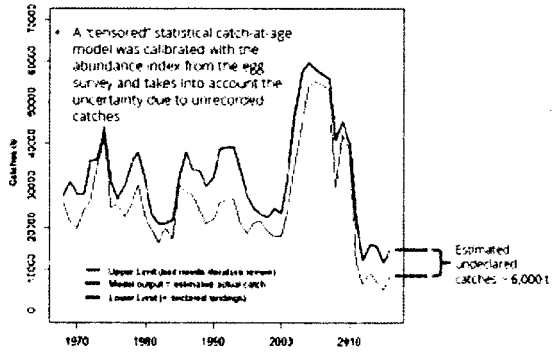
Boudreau, Carol-Ann

From: Marentette, Julie
Sent: March-31-17 5:18 PM
To: Landry, Jean; Krohn, Martha
Subject: Atlantic Mackerel Advisory Committee - Update

Good afternoon Jean and Martha,

Yesterday I attended the Atlantic Mackerel Advisory Committee meeting in Halifax. Here are some bullets that summarize what occurred, focusing on items most relevant for Science:

- QC's Science presentation and discussion took up the morning of the meeting. One major difference between AMAC and the assessment is that **there has been a shift away from expressing declared catches as a % of total catches** (i.e., no more 150-200%). Thomas, with EFM's input, has explored the use of absolute numbers and both the long-term and recent average annual undeclared catch seems to be around **6,000 t per year**.



- Science did not provide any explicit recommendations as to whether 6,000 t per year is a good estimate to extrapolate forward for 2018-2019 and TAC setting. This is because any changes EFM makes to how the "undeclared catch" is monitored, regulated, etc., will affect the demand for bait/recreational use of Mackerel.
- **EFM solicited input on whether 6,000 t undeclared catch was realistic to use in setting TACs over next two years**
  - however, industry were resistant to providing specific feedback as DFO would make the decision
  - Province of PEI felt 6,000 t was unrealistically high
- **Industry does not believe the Science model is credible**
  - They believe that this fish is highly migratory and the bulk of the biomass has been occupying and spawning in remote waters in recent years and is only starting to return now, it is "self-correcting". Science did note for participants that TAC was never limiting in this fishery until last year.
  - There is a lot of interest in the research ongoing to see if the European stock is contributing to fish seen in 3KL
- **Suggested TACs** from industry/Provinces were **most frequently 20,000 t "all in"** (including undeclared catch), but included requests as high as 100,000, 72/75,000 and 36,000 t. **Ecology Action Centre suggested 8,000 t.** The Province of NS suggested that since total catches were **about 14,000 t last year, we shouldn't go below that this year.**
- Almost all industry requested **another stock assessment after 1 year**, to facilitate changes in TAC so it isn't one decision for 2017 and 2018.
- Both the EAC and at least one indigenous group (APC) recommended the Minister use science-based decision-making, the precautionary approach and emphasize rebuilding of stocks in the critical zone.

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- **Rebuilding Working Group has been launched by DFO**, many industry members/provinces/unions were interested in participating

There was no media presence, and EFM is taking care of comm lines.

Best regards,

Julie Marentette, Ph.D.

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Pages 1881 to / à 1915

are not relevant

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Report 2 – Sustaining Canada's Major Fish Stocks

Commissioner's Recommendations	Departmental Response to Recommendations	Actions Taken to Date to Address Recommendations	Offices of Primary Interest
2.28 Fisheries and Oceans Canada should set out priorities, targets, and timelines for putting in place Integrated Fisheries Management Plans for all major fish stocks. These should include long-term, specific, measurable objectives, performance reviews, and rebuilding plans for stocks in the critical zone that are still being fished. These plans should also be made publicly accessible.	Fisheries and Oceans Canada will develop a plan with priorities, targets, and timelines for completing Integrated Fisheries Management Plans (IFMPs) for all major stocks that currently do not have these plans, and for updating existing plans that are out of date. Development of the IFMPs will be consistent with the departmental guidance on IFMPs, which includes a requirement for clear fishery objectives and a performance review. The Department's plan will include priorities and timelines for making IFMPs not already posted accessible to the public through the departmental website. The Department will also develop a plan with priorities, targets, and timelines for completing rebuilding plans that are in line with the Department's Guidance for the Development of Rebuilding Plans under the Precautionary Approach Framework for stocks that are in the critical zone. The Department will develop both plans by the end of the 2016–17 fiscal year.	A plan has been developed to complete the IFMPs and another to complete the stock rebuilding plans. Both plans identify priorities for fiscal year 2017-18 primarily. We've also established timelines for updating both plans before the 2018-19 fiscal and every subsequent year thereafter until the work is complete. This staggered approach will allow DFO to focus on the most pressing areas of concern while, at the same time, ensuring we have an evergreen strategy in place that will guide the completion of our IFMPs and rebuilding plans in the years ahead.	Senior ADM, Ecosystems and Fisheries Management
2.45 Fisheries and Oceans Canada should review its current scientific survey activities to identify gaps, and adjust its activities to ensure they are fully aligned with departmental priorities.	With the new funding received from Budget 2016, Fisheries and Oceans Canada will increase its monitoring coverage of key areas and species of marine mammals, fish, and invertebrates. The Department is currently developing a long-term plan that incorporates this new funding and provides the opportunity to further address knowledge gaps and align the Department's scientific monitoring activities with key departmental priorities. The	The work is complete. Monitoring coverage (science surveys) has already been improved in the first implementation year following Budget 2016. For example, enhanced monitoring capacity has allowed DFO to conduct an important whale survey in the North-West Atlantic in Summer 2016 in collaboration with the USA. The Department has also put in place a new national monitoring envelope	ADM, Ecosystems & Oceans Science

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	plan will be developed by the end of the 2016–17 fiscal year.	(approximately $3M per year) allowing an enhanced monitoring of key species and ecosystems. Finally, the Department has also completed a national review of its monitoring of all major stocks including surveys as well as other sources of data that we use to support stock assessments. This review identifies a number of monitoring gaps and options to consider to improve our monitoring in the future. The review is synthesized in a national report that will be the basis for a discussion with clients to ensure monitoring activities are well aligned with key departmental priorities. Once the discussions with clients are completed, a final report will be produced. This report and the improvements made in the planning process of our monitoring activities will guide our planning process in the future.	
2.52 Fisheries and Oceans Canada should improve controls for third-party fisheries observer programs to ensure sufficient coverage of fishing vessels, timely data, and mitigation of potential or actual conflicts of interest on the part of observer companies.	Fisheries and Oceans Canada will undertake the following: **2.52.1.** Finalize a national policy on fisheries monitoring (currently under development). The policy will introduce a risk-based method to establish fishery monitoring coverage, to ensure consistency across fisheries, and to make reliable and timely data available for fisheries management. The goal is to complete the fishery monitoring policy in 2017.	**2.52.1.** The work to develop a national policy on fishery-dependent monitoring is on track. DFO has prepared a draft of the policy and draft risk analysis tool to help determine the monitoring requirements for a fishery. Working with industry representatives, Departmental officials piloted the risk analysis tool on four Atlantic Bluefin Tuna fisheries. The results will be used to inform needed improvements to the reporting and monitoring programs in these fisheries, starting in the 2017 fishery.	Senior ADM, Ecosystems and Fisheries Management

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	2.52.2. Implement a program to verify compliance of observer companies with the National Dockside Monitoring Program Policy and Procedures and the At-Sea Observer Program Corporation Designation Policy and Procedures. Based on the analysis of the verification results, the Department will identify key findings and recommendations, if applicable. Outcomes of the verification process may be used to inform decisions about the national at-sea observer and dockside monitoring programs. The Department launched the verification process in July 2016 and will continue this process on an ongoing basis.	**2.52.2.** A verification methodology was prepared and two pilots were conducted in July and September, 2016. Based on the results of these pilots, the verification team has proposed some modifications to the methodology to improve efficiency, reduce costs and align with other program components (such as the Canadian General Standards Board audits, the dockside audit checks and the DFO re-designation schedule). The revised approach was approved by the C&P National Executive Committee (NEC) in December 2016. The new verification approach is being piloted in Quebec City and Halifax over the course of March and April 2017. Final adjustments will be made and training will be delivered where required prior to implementation. The verification methodology will be finalized by late April, 2017. The national verification strategy will be fully implemented in May 2017.	Senior ADM, Ecosystems and Fisheries Management
	2.52.3. Develop and implement interim guidelines for mitigation of conflicts of interest. These guidelines will remain in effect until the Department revises its dockside monitoring program policy and at-sea observer policy. Development of interim guidelines will begin immediately and remain	**2.52.3.** The National At-Sea Observers Program (ASOP)/Dockside Monitoring Program (DMP) Coordinators committee met in October 2016 and discussed an interim protocol for mitigation of conflicts of interest. A protocol based on these discussions is currently being drafted. This	Senior ADM, Ecosystems and Fisheries Management

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	in effect until the revisions of the dockside monitoring program policy and the at-sea observer policy are finalized.	protocol will be finalized in April 2017.	
	2.52.4. Revise the dockside monitoring program policy and at-sea observer policy to incorporate the interim guidelines for mitigation of conflict of interest, and a set of graduated measures to manage non-compliance issues, such as quality and timeliness of data. Revisions of the dockside monitoring program policy and the at-sea observer policy will begin in early 2017; this process is expected to take 12 to 18 months.	**2.52.4.** Revision of the dockside monitoring and at-sea observer policies was discussed at the National ASOP/DMP Coordinators committee in October 2016. Based on the outcomes of the Coordinators meeting, and the direction provided subsequent to the December 2016 meeting of the NEC, a 3 - year action plan was developed to address the various issues facing the program, including conflict of interest and options for managing non-compliance. This action plan was presented to the NEC in February 2017 and will be finalized in April 2017.	Senior ADM, Ecosystems and Fisheries Management
2.63 Fisheries and Oceans Canada should set out priorities and timelines for establishing the reference points at which the major stocks it manages can be considered healthy, in the cautious zone, or in the critical zone.	Fisheries and Oceans Canada will develop a plan with priorities, targets, and timelines for establishing precautionary approach (PA) reference points, where technically feasible, for key stocks under the Department's management control, where the reference points do not exist. A plan will be developed by the end of the 2016–17 fiscal year.	A work plan has been developed to establish PA reference points for the major stocks, where needed. The plan identifies priorities for fiscal year 2017-18 primarily. The plan will be updated before fiscal year 2018-19 to identify the next set of priority actions to develop reference points. We've also established timelines for updating both plans next fiscal and every subsequent year thereafter until the work is complete. This staggered approach will allow DFO to focus on the most pressing areas of concern while, at the same time, ensuring we have an evergreen strategy in place that	Senior ADM, Ecosystems and Fisheries Management ADM, Ecosystems & Oceans Science

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		will guide the completion of the work to develop reference points in the years ahead.	
2.65 Fisheries and Oceans Canada should set out priorities and timelines for identifying the measures to be taken if a major stock falls below a certain level, where this has not yet been done, so that sustainable fishing limits can be determined with greater certainty.	Fisheries and Oceans Canada will develop a plan with priorities, targets, and timelines for establishing precautionary approach harvest control rules, where technically feasible, for key stocks under its management control, where the harvest control rules do not exist. The plan will be developed by the end of the 2016–17 fiscal year.	A work plan has been developed to establish PA harvest control rules for the major stocks, where needed. The plan identifies priorities for fiscal year 2017-18 primarily. We've also established timelines for updating the plan before the 2018-19 fiscal and every subsequent year thereafter until the work is complete. This staggered approach will allow DFO to focus on the most pressing areas of concern while, at the same time, ensuring we have an evergreen strategy in place that will guide the completion of the work to develop harvest control rules in the years ahead.	Senior ADM, Ecosystems and Fisheries Management ADM, Ecosystems & Oceans Science
2.71 For each major fish stock, Fisheries and Oceans Canada should identify the indicators and values that would trigger a full stock assessment earlier than scheduled.	As each major stock is assessed, Fisheries and Oceans Canada will establish the indicators and values that would trigger an earlier full assessment during interim years. The Department's Ecosystems and Oceans Science sector will engage with its advisory arm (that is, the Canadian Science Advisory Secretariat) to ensure that all terms of reference for full assessments include the setting of triggers for early assessments. This action is effective October 2016 for every future full stock assessment.	This commitment has been met. In September 2016, Ecosystems and Oceans Science sector, through the the Canadian Science Advisory Secretariat (CSAS), initiated actions to ensure that effective October 2016 all terms of reference for full assessments included the setting of trigger values for early assessments. Procedures for ensuring that, when appropriate, relevant stock assessments for major stocks include the identification of	ADM, Ecosystems & Oceans Science

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		indicators and trigger values are in place. Guidelines for providing interim-year updates and science advice for multi-year assessments have been developed and are available online. Using this guidance, Regional Science Advice Coordinators are ensuring that the requirement for indicator and trigger setting is included for all relevant stock assessments, when appropriate. Objectives are included in the Terms of Reference (TOR) that identify the need to set indicators and triggers. Prior to posting the terms of reference on the website, CSAS at NCR provides an oversight function to ensure that the TORs are fully compliant. At the meeting, chairs are responsible for ensuring that the objectives in the TOR are met and that the Science Advisory Report identifies indicators and trigger values. All TOR and Science advisory reports are required to be approved by the regional coordinator prior to posting on the CSAS website. Reports that do not contain language about triggers will not be approved and will be sent for revision. Following finalization of the annual science advisory schedule, all approved fisheries-related science advice requests are screened in relation to this OAG recommendation in order to identify those science advisory processes that must include reference to interim-year updates in the associated Terms of Reference. The results of this screening will be	

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Commissioner's Recommendations	Departmental Response to Recommendations	Actions Taken to Date to Address Recommendations	Offices of Primary Interest
		communicated to the Regional Science Advice Coordinators.	
2.80 Fisheries and Oceans Canada should ensure it has allocated adequate resources to develop a system or systems that allow for data availability and comparison to enable more effective and efficient fisheries management.	As part of its Application Rationalization Initiative, Fisheries and Oceans Canada launched the Ecosystems and Fisheries Management Systems Integration stream of work in 2015, with the objective of consolidating and integrating systems nationally to fully support business requirements and comply with enabling technology standards by 2020. The project will involve reviewing and analyzing all data requirements, including national availability, sharing, and reporting capabilities to develop integrated systems that will improve data quality and information management to support decision making. The project will also build a foundation for ongoing Application Portfolio Management and Application Lifecycle Management to improve planning and the ability to meet changing needs. Preliminary project approval (approximately $24 million over five years) was officially granted in May 2016. The Department will regularly review the adequacy of the project budget and refine cost estimates as the project moves through each approval gate in accordance with the guidelines of the Treasury Board of Canada Secretariat.	Ecosystems and Fisheries Management Systems Integration is on track for completion by March 31, 2021. EFM is developing the business requirements necessary to begin production of software for three project streams including authorizations (licensing, permits etc.), quota management, catch and effort. An integrated plan for the development of a new generation of systems has been developed in collaboration with IM&TS. Plans include the development of the technical infrastructure necessary to host systems and meet SSC requirements as well as the development of a portfolio of projects necessary to build and roll out new systems as part of a business modernization agenda. In February and March 2016, EFM hosted workshops that included regional system users in order to validate system requirements related to authorization, quota, monitoring and control. Information gathered during these workshops will be used for the development of integrated technical solutions that will support effective and efficient management of fisheries.	Senior ADM, Ecosystems and Fisheries Management ADM, Human Resources and Corporate Services

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Department of Fisheries and Oceans Canada
Management Action Plan
Fall 2016 Reports of the Commissioner of the Environment and Sustainable Development
Report 2 – Sustaining Canada's Major Fish Stocks

Commissioner's Recommendations	Departmental Response to Recommendations	Actions Taken to Date to Address Recommendations	Offices of Primary Interest
	A project governance structure has been put in place, and monthly dashboard reports including budget forecasts and expenditures will be submitted for review by departmental senior management. Consolidated systems will be migrated to new IT infrastructure by 2020. The Department will begin ongoing application portfolio management, optimization, and maintenance in the 2020–21 fiscal year.		
2.93 Fisheries and Oceans Canada should improve coordination between regions so that it can better share the fisheries monitoring information needed to manage the northern and Atlantic Greenland halibut stocks.	In June 2016, Fisheries and Oceans Canada implemented a plan to improve communication and quota management between its regions that manage the Greenland halibut Northwest Atlantic Fisheries Organization (NAFO) Division 0B fixed gear competitive fishery. As a result, there were no quota overruns in 2016. The Department will develop and implement a plan to improve sharing of logbook data between Fisheries and Oceans Canada regions to enhance the monitoring of the NAFO Subarea 0 Greenland halibut fishery. The Department will also develop and implement an overall plan to improve the sharing of fishery monitoring information between regions for the management of these stocks. Both plans will be developed and implemented by June 2017.	During the audit, Fisheries and Oceans Canada (DFO) provided evidence to the CESD audit team regarding the June 2016 plan that DFO put in place. DFO has developed and implemented a plan to improve the sharing of logbook data from the NAFO Subarea 0 Greenland Halibut fishery. Implementation has achieved the required improvements for the effective monitoring of the 0B fixed gear competitive fishery. Thus this commitment, which was due June 2017, has been met. DFO is on track to develop and implement the overall plan to improve the sharing of fishery monitoring information for the management of the Greenland Halibut stocks by June 2017.	Senior ADM, Ecosystems and Fisheries Management

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Commissioner's Recommendations	Departmental Response to Recommendations	Actions Taken to Date to Address Recommendations	Offices of Primary Interest

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March 27, 2017

(A) Three stocks in the critical zone with formal rebuilding plan		Directed or Bycatch Fishery	Management Measures
Pacific	Bocaccio Rockfish - Pacific	Caught (non-directed) as part of groundfish fishery	There is no known directed fishing for this stock in groundfish fisheries. As a disincentive to directed fishing the trawl industry requires all monetary value of any incidental caught and landed Bocaccio to be relinquished by licenced holders to support industry-lead groundfish research in the Region. This has been in place for over a decade. For the Hook and line fisheries, Boccacio are managed by a trip limit intended to incentivise avoidance. Given that there is no directed fishery for Bocaccio, evaluating it as a fishery under this checklist is not applicable. On the basis of the most recent science advice in 2013 DFO implemented a three year rebuilding plan for Bocaccio rockfish. This rebuilding plan can be found in Appendix 9 of the 2016/2017 Groundfish IFMP. It outlines goals, milestones, timelines, and management measures for Bocaccio rebuilding. **Continuation of Pilot Bocaccio Rebuilding Measures** **A) Mortality cap:** Based on updated science information, the Department introduced bocaccio catch reduction targets from 2012 catch levels of approximately 137 tonnes (inclusive of trawl, groundfish hook and line, salmon troll, and recreational sectors) to 75 tonnes over a three year period, in order to support stock rebuilding. **B) Trawl TAC: The TAC for the trawl fishery was progressively reduced over several years from 150 tonnes to 80 tonnes, with a catch target of 61.9 tonnes** **C) Trip Limits:** in 2013/2014 trip limits were introduced for hook and line and trap groundfish fisheries for bocaccio. In 2014/15, these trip limits were reduced. **C) Voluntary relinquishment program for the proceeds of bocaccio catch** The Commercial Industry Caucus, an advisory body with representatives from all commercial groundfish fleets, has also supported a voluntary relinquishment program for the proceeds of bocaccio catch in the groundfish hook and line fleets, similar to that in place for the trawl fleet. The Department will continue to review the efficacy of these pilot measures at the end of each fishing season and consider any additional measures necessary to support stock rebuilding. D) Improving recreational catch information: communications materials have been developed for the recreational sector and adjustments to catch reporting programs have been made to increase Bocaccio catch reporting.
Pacific	Yelloweye Rockfish (outside)	Caught as part of groundfish fishery	The status of the outside population of Yelloweye is slightly better relative to unfished biomass than it is for Bocaccio. On the basis of 2015 science advice, in 2016 DFO implemented a three year rebuilding plan for Yelloweye rockfish. This rebuilding plan can be found in Appendix 9 of the 2016/2017 Groundfish IFMP. The aim for Yelloweye is to achieve rebuilding throughout the outside stock's range and grow out of the critical zone within 15 years, with a 57% probability of success. To support and monitor progress towards the objective, **milestones have also been established**: 1)**Achieve a positive outside stock trajectory trend in each 10 year interval**, such that the biomass at the end of each 10 year period is greater than the biomass at the beginning of the same 10 year period; 2)**Achieve catch reduction targets within three years**: the Department has set out a near term plan for stepped reductions of total Yelloweye outside population harvest from the estimated total catch mortality of 287 MT in 2014 to a mortality cap of 100 MT over 3 years (2016-17 to 2018-19). This plan accounts for survey catches and aboriginal fishing opportunities. Taking into consideration advice provided by fishing interests, the Department will introduce initial management measures for 2016 to make steps towards the mortality cap described above and has committed to future discussions in 2016 to define a more comprehensive plan for achieving the 100 MT mortality cap. Initial management measures include a 80% reduction in the commercial groundfish TAC from 2015 to 2017 and slight adjustments to the spatial apportionment of the TAC among Groundfish Management Areas, based on advice from the Commercial Industry Caucus which considered survey trends and abundance and commercial fishery catch information. Initial management measures for 2016/17 include a 33% reduction in recreational fishing opportunities, and a focus on improved reporting and avoidance

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			of Yelloweye in the salmon troll fishery (retention of Yelloweye is already prohibited). Additional measures for the recreational fishery are currently being finalised for 2017. The rebuilding plan will be expanded over the coming years to set out a longer term approach. The rebuilding plan can be found in Appendix 9 of the 2016/2017 Groundfish IFMP)
(A) Three stocks in the critical zone with formal rebuilding plan..ctd.		**Directed or Bycatch Fishery**	**Management Measures**
Gulf	Northern Gulf Cod 3Pn	Directed	-Minister approved 5 year rebuilding plan in April 2015. TAC set at 1500 tons. -Long term objective is to maintain Spawning Stock Biomass (SSB) at or above the spawning biomass at maximum sustainable yield (Bmsy) while providing harvesters reasonable fishing opportunities during the rebuilding phase. -Based on science assessment projections for 2016 and 2017, an annual harvest level of 1500t or less provides a high probability that the mature biomass will increase. -The Rebuilding plan aims to bring the stock out of the critical zone with the goal to double the 2012 SSB, starting in 2013 over the next 10 years with incremental increases at each 5 year period based on Harvest Control Rules (HCRs). -A stock assessment was completed in February 2017 and will inform the next rebuilding plan period for this stock.

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(B) 16 marine stocks in Critical zone with no formal rebuilding plan (2016). The Chinook salmon complex is excluded as it is a managed under the Wild Salmon Policy		Directed or Bycatch Fishery	Management Measures
NHQ	Mackerel (Atlantic) NAFO 3-4	Directed	-The results of the science stock assessment carried out in 2014 indicated a continual decline in the Atlantic mackerel fishery. Our response to this decline has been a steady reduction in total allowable catch (TAC). Specifically, over the last six years, DFO has steadily reduced the TAC from 60,000 tonnes to 8,000 tonnes. -A stock assessment has been completed for 2017 and will inform the 2017-2018 TAC decision. DFO has and will continue to carry out increased scientific research and new resource management initiatives to help promote the sustainability of the mackerel fishery: •Gather updated data from industry to support stock assessments; • Improve monitoring of commercial and bait fisheries •Increase its knowledge of changes in Mackerel distribution; •Increase engagement with US scientists to improve the stock assessment for this transboundary stock; •Increase its knowledge of the impact of bait or recreational fisheries and working with industry to find new sources (such as herring) for bait; and •Continue to carry out a new egg survey to determine if there are any new or significant spawning areas for mackerel off the northeast coast of Newfoundland and Labrador in collaboration with industry and other stakeholders. -On October 14, 2016, Fisheries and Oceans Canada issued a Variation Order to close the mackerel fishery for the year as the total allowable catch (TAC) was estimated to be fully harvested. This was the first ever closure of the mackerel fishery as the TAC had never been reached in any year since one was established in 1987. There have been good signs of recruitment over the past 1-2 years which may have contributed to the increased catches in 2016. There was no industry interest in the development of a rebuilding plan at the last meeting of AMAC, (in 2014), given stakeholders did not endorse the stock assessment presented at that time. It is hoped that with an improved assessment available in late March, that there will be more interest and involvement of stakeholders in the establishment of a Rebuilding Plan Working Group of AMAC to support future viability of this stock. The Department will request industry participation on the working group at the AMAC meeting on March 30, 2017 in hopes that the working group could meet later in 2017 to start the process for a rebuilding plan for this stock.
NHQ	Northern Shrimp SFA 6	Directed	No ministerial decision yet on the 2017 measures.
Gulf	Herring 4T (Spring Spawner)	Directed	Given that the spring component of the stock remains at low levels, the Total Allowable Catch (TAC) will remain at 2,000 t for the next two years (2016-2017). Pursuant to the interim management measures announced on March 23, 2016, and to continue the rebuilding of the spring component of this stock, all 2015 management measures for this component have been rolled over for the 2016 and 2017 seasons.

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Gulf	Plaice (American), Southern Gulf of St. Lawrence - 4T	Bycatch - 250t quota	-By-catch for all fleets. Managed by 10% percent trip limit per fleet. Temporary closures enforced if trip limit exceeded. - Reference points are in place. -By-catch in Gulf Greenland halibut, Redfish and Witch Flounder directed fisheries. Natural mortality is the prevailing limiting factor for this stock's recovery. No difference to stock trends at TAC options of 0 t, 100 t and 250 t per year for 2016-2021. - Discussions with GGAC will take place the week of Mar 21, 2017 on more stringent mgt measures to ensure catches are at the lowest possible level.
Gulf	Cod, Southern Gulf of St. Lawrence - 4TVn	Moratorium - Bycatch Only	-By-catch for all fleets. Managed by 10% percent trip limit. Temporary closures enforced if trip limit exceeded. - A 300t TAC is in place to accommodate Aboriginal Food Social and Ceremonial, Sentinel fishery (science survey), allocation to France (on behalf of Saint Pierre et Miquelon), Recreational fishery and by-catch. - Landings well within TAC in recent years (less than 50% of the TAC) - Management measures are in place to ensure catches are at lowest possible level.
Gulf	White Hake 4T	Moratorium - Bycatch Only	-By-catch for all fleets. Managed by 10% percent trip limit per fleet. Temporary closures enforced if trip limit exceeded. - Management measures are in place to ensure catches are at lowest possible level.
Gulf	Witch Flounder 4RST	Directed	-Licence conditions and quota monitoring, regional CHPs, bycatch restriction on other directed GF fisheries. -Reference points are in place. A stock assessment was completed in February 2017; stock biomass is showing signs of increase and is currently above the LRP.
Maritimes	Atlantic Cod - 5Zjm	Directed and by-catch primarily in haddock fishery	-Licence conditions and quota monitoring, regional Conservation Harvest Plans (CHPs), bycatch in other directed GF fisheries is counted against quota. The stock assessment has indicated that the fish catch has been decreased significantly, but there is lack of evidence of stock rebuilding. There are some other factors other than fishery that have contributed to the population dynamics. Fishing mortality has been below fishing reference point since 2011. -PA reference points in place and HCRs -Stock is transboundary and is co-managed with the United States, including science assessments and management recommendations. –Any rebuilding strategy for this stock would need to be developed considering bi-lateral processes and arrangements. -- ENGOs are participants on the Scotia Fundy Advisory Committee and can also participate as observers at the Gulf of Maine Advisory Committee where management discussion on 5Z transboundary stocks take place. Bilaterally managed with the US. Cooperative arrangement for the science assessments and mgt recommendations. Developing a unilateral Rebuilding Plan can be explored but the Rebuilding Plan could not impede bi-lateral processes or arrangements. 5Z Cod –Canada/Us currently have divergent views on many aspects of Cod. Assessment Model is in place for this stock. Canada has mgt measures to keep catches at the lowest possible level. Oceana is on the SFGAC distribution list and can participate as observers at GOMAC. Maritimes GF IFMP- draft Mar 31, 2017 No timelines for rebuilding plan..

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Maritimes	Yellowtail Flounder - 5Z	By-catch only primarily in scallop fishery	-Licence conditions and quota monitoring, regional CHPs, bycatch in other directed fisheries is counted against by-catch quota. --Reference points were in place however a benchmark assessment would be needed to establish revised Reference points. The stock is assessed using survey indices. -Stock is transboundary and is co-managed with the United States who is the lead on science assessments. –Any rebuilding strategy for this stock would need to be developed considering bi-lateral processes and arrangements. -- ENGOs are participants on the Scotia Fundy Advisory Committee and can also participate as observers at the Gulf of Maine Advisory Committee where management discussion on 5Z transboundary stocks take place. - Canadian landings of 5Z Yellowtail are very small (approximately 14t) in 2016 from bycatch. Thus catches are currently at the lowest possible level. 5Z YT- CDN landings last year were 14t via by-catch scallop fishery. Canada has mgt measures in the scallop to keep catches at the lowest possible level. Assessment is done jointly with US, assessment model was abandoned due to lack of confidence, now using survey indices. CDN interest in this fishery is very small.
Maritimes	Atlantic Cod 4X5Y	Directed and by-catch primarily in haddock fishery	-Licence conditions and quota monitoring, regional CHPs, bycatch in other directed GF fisheries is counted against quota. The stock assessment has indicated that catch has been decreased significantly, but there is lack of evidence of stock rebuilding. There are some other factors other than fishery that have contributed to the population dynamics. -PA reference points in place and HCRs -A rebuilding Plan will be developed through Scotia Fundy Advisory Committee the 2017-18 fiscal year. -ENGOs are participants on the Scotia Fundy Advisory Committee and would be involved in developing a rebuilding plan. Rebuilding Plan/ strategy: will be developed through SFGAC next fiscal year DFO has a model and Reference points in place. The rebuilding plan will be looking at mortality in non-target fisheries to develop a strategy that promotes potential rebuilding. Oceana is on the SFGAC distribution list and can participate
(B) Stocks in Critical zone with no formal rebuilding plan (2015) ..ctd		**Directed or Bycatch Fishery**	**Management Measures**
NL	Cod – 2J3KL (Northern)	Moratorium (stewardship and Rec fishery)	-Weekly landing limits, quota monitoring, gear restrictions, small fish restrictions, reporting requirements. - An assessment model has been adopted through peer review process. -DFO, in collaboration with stakeholders is developing a rebuilding plan for this stock. The working group has met several times and as recently as December 16, 2016. -A subgroup of the working group was tasked to develop management scenarios for testing under the assessment model and last met on Feb 1, 2017. - Provisional objectives for the Rebuilding plan have been drafted and will be reviewed once the sub working group completes its work.

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			- Members of the WG include DFO/ WWF/Prov/inshore and offshore fleets. -There is no timeline for the completion of the rebuilding plan. The offshore and inshore fleets hold divergent views on how aggressively the stock should be fished under a rebuilding plan. DFO and the industry must find a common ground in order to finalize the plan. - DFO/WWF and the inshore fleet are also working together on a Fisheries Improvement Project (FIP) for this Stock.
NL	Redfish Unit 2	Directed	Licence conditions and quota monitoring, regional CHPs, bycatch in other directed GF fisheries is counted against quota. -Precautionary Approach (PA) reference points in place. -Strong year class coming. - **The Department, in conjunction with industry, has developed a Redfish Working Group to specifically address the rebuilding of Unit 1 and 2 Redfish stocks. One rebuilding plan will be developed.** A draft Rebuilding plan is in place with objectives and interim milestones. The Objectives developed by the Working Group are as follows: 1. Develop a Precautionary Approach for Unit I and Unit II Redfish; 2. Discuss management measures for Unit I and Unit II Redfish. Based on Science and industry input, determine if Unit I and Unit II Redfish should be managed as one stock or remain subdivided in two; and 3. Develop advice for DFO on rebuilding options specific for mentella and fasciatus. - Given the assessment model used in 2011 to determine reference points had notable and acknowledged issues, alternate models were explored by both DFO and industry and peer review in the fall of 2015.Both models failed and none could be adopted at the time. -The Working Group last met in Dec 2016 and determined that an Management Strategy Evaluation (MSE) approach would be the most viable option for developing a rebuilding strategy for this stock given challenges with outlining an assessment model. -At a Mar 24th DFO and industry adopted Objectives and performance statistics for the MSE. The MSE is expected to be completed by April 2018. The MSE will inform the development of the rebuilding plan. There is no specific timeline to complete the rebuilding plan.

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Pacific	West Coast Vancouver Island (WCVI) Aggregate Abundance Based Management (AABM) Chinook	Directed	A) **Harvest level restrictions** -Objective for WCVI chinook is to manage Canadian ocean fisheries (specifically northern troll, Haida Gwaii sport, WCVI troll and WCVI sport) to an exploitation rate of 10%. -The objective for North Coast chinook is to manage in accordance with the allocation policy, and to manage the northern troll fishery to a WCVI chinook exploitation rate of 3.2%. **B) Time and Area Restrictions:** -The harvest rate of WCVI Chinook in the Area F troll fishery is calculated based on 3.2% of the total WCVI return to Canada and is used as an in-season proxy for exploitation rate. The in-season harvest rate will be estimated using the mean effort-harvest rate relationship developed from historical DNA analysis. The fishery will be further constrained by remaining closed during the first three weeks of June and the month of August as these periods are known to have higher proportions of WCVI chinook in the total catch. - Post Season Review of WCVI chinook: The time and area management actions for the WCVI troll fishery are designed to maintain negligible impact on returning natural WCVI chinook stocks. The WCVI troll fishery was limited to well off shore of the surf line (5 miles in southern Areas and 2 miles in Area 127) during the time when WCVI stocks are returning to their natal streams. Additionally, the fishery was closed from June until August 6 and then open until the end of September in offshore areas. -Subject to Wild salmon policy.
Pacific	Yelloweye Rockfish - Inside Population	Caught as part of integrated groundfish fishery	Rebuilding efforts for Yellow eye rockfish (inside) were implemented (and still in place) over 10 years ago: **A) Inshore Rockfish Conservation Areas** -In 2002, an inshore rockfish conservation strategy was established with measures introduced for recreational and commercial fisheries. The strategy addresses four areas under the fisheries management and stock assessment regime: a) Protect a part of inshore rockfish populations from harvest through the use of rockfish conservation areas. b) Collect information on total fishery mortalities through improved catch monitoring programs. c) Reduce harvests to levels that are less than the estimates of natural mortality (i.e.less than two percent). d) Improve the ability to assess the status of inshore rockfish populations and monitor changes in abundance. -There are 164 Rockfish Conservation Areas (RCAs) in place within BC waters. The most recent additions were implemented February 1, 2007 in the Strait of Georgia area. Fish harvesters are reminded prior to fishing to check with the local DFO office to verify RCA and other closures currently in effect. A description of all RCAs can be found at: http://www.pac.dfo-mpo.gc.ca/fm-gp/maps-cartes/rca-acs/index-eng.htm. ..... Recreational and commercial fishing opportunities were significantly reduced to address strategy (C).
(B) Stocks in Critical zone with no formal rebuilding plan (2015).. ctd		**Directed or Bycatch Fishery**	**Management Measures**
Pacific	(....continued) Yelloweye Rockfish - Inside Population	Caught as part of integrated groundfish fishery	**C: 2015/2016 Halibut Commercial Harvest Plan: Bycatch restrictions in the 4B (Strait of Georgia) Halibut Fishery and corresponding area closers if the Yelloweye TAC is reached** -A non-transferable allocation of Yelloweye rockfish is provided to vessels who apply to fish Halibut in area 4B waters, thus area 4B fishers are not required to acquire quota to cover the catch of Yelloweye. However, vessels are restricted to annual caps of 200 pounds

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			(round weight) of Yelloweye in area 4B. -If the Yelloweye TAC for Area 4B is reached, the fishery in this area will be closed. Once individual vessels have reached their annual limits they will be restricted from further directed Halibut fishing in Area 4B for the remainder of the season.
Quebec	Iceland Scallop (Pétoncle d'Islande) 16EF-18A	directed	Des mesures sont en place pour redistribuer l'effort et diminuer le taux d'exploitation. Des travaux sur le développement de l'indicateur pour définir les points de référence pour les zones 16E-F débuteront en 2017-2018 **Effort control:** A major change in fishery management methods in areas 16E, 16F and 18A occurred in 2006. Since then the scallop fishery has been managed by effort control, which involves limits to size of mesh, size of scallops, days fishing, hours per day fished and number of vessels. **e.g. Area 16E**: A number of measures address conservation in the fishery in **16E**: These include: -a limit of nine licensed vessels in the fishing area -a limit of 277 days of fishing each year -restriction of fishing during daylight hours between 6 a.m. and 4 p.m. -a minimum ring size on dredge baskets of 95 mm to prevent the harvesting of immature scallops. -limitation to the width of the tow bar at 7.3 metres (24 feet). -seasonal and area closures to protect habitat. -coverage by independent at-sea observers equal to 10 percent of annual trips. -vessel monitoring system on vessels to track their positions via satellite. -fish harvester required to keep a daily logbook of estimated catch.
Quebec	Béluga du Nord (Nunavik)	Food, Social and Ceremonial (FSC) fishery	The harvest of beluga in Nunavik operates under a co-management regime as a result of the Nunavik Inuit Landclaims Agreement. The Nunavik Marine Region Wildlife Board (NMRWB) establishes a quota, referred to in the land claim as a Total Allowable Take (TAT). A 3 year management plan is soon to end in March of 2017. A new 3 year management plan will run from approximately April 2017 to end of March 2020. The management objective was to allow "risk" harvests rate that would maintain a stable population with a probability of the herd declining to not exceed 50%.
Quebec	Redfish Unit 1	Moratorium- index fishery quota	Index fishery only. Index quota managed similar to directed fishery TAC. I.e. Licence conditions and quota monitoring, regional CHPs, bycatch restriction in other directed GF fisheries. **Unit 1 Redfish is part of the Unit 1 and 2 Redfish stock complex for which a rebuilding plan is being developed.** A draft Rebuilding plan is in place with objectives and interim milestones. The Objectives developed by the Working Group are as follows: 1. Develop a Precautionary Approach for Unit I and Unit II Redfish; 2. Discuss management measures for Unit I and Unit II Redfish. Based on Science and industry input, determine if Unit I and Unit II Redfish should be managed as one stock or remain subdivided in two; and 3. Develop advice for DFO on rebuilding options specific for mentella and fasciatus. Given the assessment model used in 2011 to determine reference points had notable and acknowledged issues, alternate models were explored by both DFO and industry and peer review in the fall of 2015.Both models failed and none could be adopted at the time. -The Working Group last met in Dec 2016 and determined that a Management Strategy Evaluation (MSE) approach would be the most viable option for developing a rebuilding strategy for this stock given challenges with outlining an assessment model. -At a Mar 24th DFO and industry adopted Objectives and performance statistics for the MSE. The MSE is expected to be completed by April 2018. The MSE will inform the development of the rebuilding plan. There is no specific timeline to complete the rebuilding plan

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Summary of Appearance on February 7, 2017 at House SCOFO:

The Associate DM appeared along with Sylvie Lapointe and Arran MacPherson representing DFO alongside the Commissioner of the Environment, Julie Gelfand on February 7, 2017.

- There were no additional commitments made for future action related to this file except that the DM or Minister would appear in April to provide the Committee with an update on the 6 month status of the implementation plan.
- Based on the blues, the only immediate commitments we made, were the commitments as outlined in the report with a deadline of March 31, 2017:
    - Recommendation 2.28: IFMPs that include long-term, specific, measurable objectives, performance reviews, and rebuilding plans for stocks in the critical zone that are still being fished.
    - Recommendation 2.45: Assess gaps in scientific survey activities
    - Recommendation 2.63: Reference points (major stocks considered healthy, in the cautious zone, or in the critical zone)
    - Recommendation 2.65: sustainable fishing limits for stocks
    - Recommendation 2.71: indicators and values that would trigger a full stock assessment (ongoing and applied as of October 2016)

Below is a summary of the key areas that Committee members focused on during the February 7, 2017 appearance:

- **3rd party science**: The point was made that it was hard to get 3rd party science into DFO. This would include science from citizen's groups and even First Nation's monitoring. The member of parliament made a point to ask why DFO wasn't taking up these opportunities to fill the gaps in science. [page 8 of blues]

- **Priority of Marine Stewardship Council certification:** The point was raised as to why DFO was putting so much emphasis on this certification as it ultimately delegates fisheries management responsibilities to an outside organisation. [page 10 of blues]

- **Asian Carp in the Great Lakes:** The point was raised as to what the department was doing to address the threat of Asian carp in the Great Lakes. This question also came up at the Minister's appearance on March 9. [page 10 of blues]

- **Rebuilding plans:** The point was made about rebuilding plans and how there are 12 stocks that are considered to be in the critical zone that have no plans but are continuing to be fished. A reference was made to northern cod. The Northern Cod report was tabled March 20, 2017. [page 11 of blues and page 14 of the blues]

- **Missing management plans:** The point was made that 44 management plans for certain stocks are missing or outdated. [page 12 of blues]

- **National fisheries management policy:** The point was made about improving controls on third party fisheries observers to ensure sufficient coverage on fishing vessels etc... The Committee wanted an update on the status of policy and when it would be ready. [page 12 of blues]

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- **Prevention of another fishery stock collapse:** the point was made that it has been 25 years since the northern cod fishery collapsed. The Member of Parliament wanted to know if there were adequate management practices in place to ensure another collapse would not occur. [page 13 of the blues]

- **Halibut allocation in 2015:** the point was made that in 2015 the quota allocation for halibut was announced with no rationale (not transparent). [page 14 of the blues]

- **Integrated Fisheries Management Plans**: the point was made that some IFMPs had vague objectives and had not had performance reviews conducted. [page 16 of the blues]

- **Conflict of interest**: the point was made that 4 companies had been identified in the CESD Report 2 as having a conflict of interest where the department did not act. [page 16 of the blues]

Links to House SCOFO report on Fisheries Act

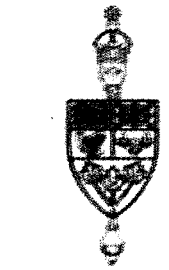
The following recommendations under the *Fisheries Act* report link to recommendations made in the CESD Report 2:

- Recommendation 5 of the Fisheries Act Report: That Fisheries and Oceans Canada fund more research dedicated to ecosystem science."
    - This recommendation links to the comments and questions made by the Committee regarding 3rd party science.

- Recommendation 30: That any revision to the Fisheries Act should include direction for restoration and recovery of fish habitat and stocks.
    - There was a call for a purpose statement or application principles to be added to the Fisheries Act that would ensure that the Fisheries Act is brought into the 21st century and is an effective cornerstone in Canada's environmental legislation by including sustainable principles, and specifically an ecosystem approach; the precautionary principle; community-based management to guide fisheries management decision-making and cumulative effects; prescriptive guidance on fish management objectives, principles, and procedures; and better monitoring, open data, and transparency.

    - With respect to the CESD Report 2, the Commissioner of the Environment and Sustainable Development found that for 12 of the 15 major fish stocks that were in the critical zone and required rebuilding plans, DFO had neither plans nor timelines for developing them. The Department accepted the Commissioner's recommendation 2.28.

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Available at https://www.ourcommons.ca/Content/Committee/421/FOPO/Reports/RP8826804/foporp10/foporp10-e.pdf



HOUSE OF COMMONS
CHAMBRE DES COMMUNES
CANADA

NEWFOUNDLAND AND LABRADOR'S NORTHERN COD FISHERY: CHARTING A NEW SUSTAINABLE FUTURE

Report of the Standing Committee on Fisheries and Oceans

Scott Simms
Chair

MARCH 2017

42nd PARLIAMENT, 1st SESSION

Pages 1956 to / à 1999

are not relevant

sont non pertinentes

Document Released Under the Access to Information Act / Document divulgué en vertu de la Loi sur l'accès à l'information.

Beamish, Kayla

From: Lester, Brian
Sent: March 31, 2017 10:32 AM
To: Beamish, Kayla
Subject: RE: Mackerel
Attachments: ML_MackerelDecision bl.docx

See some suggestions. Let me know if you need any clarifications...hard to read with track changes on.

From: Beamish, Kayla
Sent: 2017–March-30 2:56 PM
To: Lester, Brian
Subject: RE: Mackerel

Hi Brian,
Just following up on these so they're fresh in your inbox following the meeting today. I will be sure to have them approved first thing tomorrow morning once you've made your changes.

Thanks
Kayla

From: Beamish, Kayla
Sent: March 29, 2017 10:23 AM
To: Lester, Brian
Subject: Mackerel

Hi Brian,

Hope the meetings are going well so far. I've started to pull together some draft content for the mackerel lines – from the QP Note and from an old set about a mackerel decision in 2016. That being said, I'm not totally sure what we should be prepared for so your insight would be great there (are we announcing TAC soon or are these lines in case hot issues come up at the meeting?)

Let me know if you have time to chat today... I have a window of time to work on this for a bit today but things are heating up with 3ps cod and northern shrimp, among other things so window is small!

I've included the very draft copy that has the outdated info from the last set I used. Might give you a sense of where my info/knowledge is missing for this one ☺

Thanks!

Kayla Beamish
Communications Advisor / Conseillère principale en communications
613-993-1512
Fisheries and Oceans Canada / Pêches et océans Canada
200 rue Kent Street, Ottawa, ON K1A 0E6
Follow us on Twitter: @DFO_MPO | Suivez-nous sur Twitter : @MPO_DFO

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DRAFT

MEDIA LINES

Atlantic Mackerel Management Decision 2017

Issue

The Atlantic Mackerel Advisory Committee meeting is taking place on March 30 in Halifax, Nova Scotia. DFO ~~is~~ chair~~eding~~ the meeting and ~~XX~~ upwards of 70 stakeholders, including Indigenous groups, harvesters, processors, Environmental Non-Government Organizations and the 4 Atalntic provinces and Quebec. ~~XX provinces, etc will be in attendance.~~ The Department ~~will likely~~may receive media calls ~~during and~~ following the meeting

The 2017 TAC decision for the Atlantic Mackerel fishery ~~will~~ is expected to be announced ~~on XX TBC~~in early May.

Media lines

~~** anything to note from meeting Tuesday with Indigenous groups?~~
~~** updates on the stock assessment from 2017?~~
~~** when is the TAC announcement?~~

- Our government ensures that fisheries management decisions for all stocks, including Atlantic mackerel include consideration of the best available science as well as input from Indigenous groups, harvesters, processors, Environmental non-government organizations and the provinces.

- The Department undertook a new stock assessment for Atlantic mackerel this spring which includes more data. This updated assessment was discussed with members of the Atlantic Mackerel Advisory Committee on March 30 and input from stakeholders will assist in future decisions for this fishery.

- While the science assessment has shown some preliminary signs of rebuilding, the stock assessment indicates that ~~is still considered to be in~~ the stock remains in critical zone under the precautionary approach framework.

- Fisheries and Oceans Canada is committed to balancing economic opportunity and financial stability of the Atlantic mackerel fishery while promoting the sustainability of this resource.

If pressed:

- ~~Total Allowable Catch (TAC) d~~ Management decisions ~~are based~~for this fishery will consider ~~on~~ long-term conservation and sustainability ~~principles~~ of the stock and take into ~~consideration~~ account the best available science, the department's management plan, and views expressed by stakeholders at the recent consultation with industry.
-

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While industry supported and agreed with the general trends of stock rebuilding indicated in the stock assessment, their views are that the overall biomass is significantly larger than the science would indicate based on what they experienced in the 2016 fishery.

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- ~~The results of the science stock assessment indicate a continual decline in the Atlantic mackerel fishery. Our response to this decline continues to be a steady reduction in TAC. Over the last six years, DFO has steadily reduced the TAC from 60,000 tonnes to 8,000 tonnes.~~

- ~~TAC for 2017?~~

- ~~Between stock assessments, DFO carries out the following scientific research and resource management initiatives to help promote the sustainability of the fishery:~~
  - ~~Gather updated data from industry for the 2017 stock assessment;~~
  - ~~Increase its knowledge of changes in Mackerel distribution;~~
  - ~~Increase its knowledge of the impact of bait or recreational fisheries and working with industry to find new sources (such as herring) for bait; and~~
  - ~~Continue to carry out a new egg survey to determine if there are any new or significant spawning areas for mackerel off the northeast coast of Newfoundland in collaboration with industry and other stakeholders.~~

~~If pressed on...~~

- ~~The Department is aware of inshore harvester's views on their access to mackerel and more specifically those who fish mackerel to use for bait in lobster, crab, tuna and other fisheries.~~

- ~~Officials will work with those involved in the mackerel fishery to develop options for improving real-time information on the progress of the fishery before the next fishing season in 2017.~~

If pressed on judicial review:

- The Department will not comment on this matter, as it currently before the Court.

Program Contact: Brian Lester, Adam Burns

Communications Contact: Kayla Beamish

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Cormier, Mélanie

De: Plamondon, Michel
Envoyé: 31 mars 2017 07:57
À: Rivierre, Antoine
Cc: Boudreau, Suzie; Racine, Sylvi
Objet: TR: Comité consultatif maquereau

Bon matin Antoine,

Voici les questions du journaliste, peut-être que certaines relèvent des sciences...

MP

De : Journaliste Le RADAR [mailto:journaliste@leradar.qc.ca]
Envoyé : 31 mars 2017 07:37
À : Plamondon, Michel
Objet : Re: Comité consultatif maquereau

Bonjour Michel,

Voilà en somme, quelques points que je souhaiterais aborder, puisque j'ai déjà couvert la dernière évaluation de long en large :

Quel est le scénario proposé aux gestionnaires lors du Comité consultatif?
Le TAC proposé par les scientifiques?
À quel pourcentage d'exploitation de la biomasse ce TAC correspond?
La date estimée du début de la pêche commerciale

Merci

LE RADAR
L'HEBDOMADAIRE DES ÎLES

[redacted]
Tél.: (418) 986-2345 poste [redacted]
Fax: (418) 986-6358
www.leradar.qc.ca

Le 2017-03-30 à 15:12, Plamondon, Michel a écrit :

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s.19(1)

Bonjour [redacted]

Le responsable pour le maquereau sera de retour demain. Je vais regarder ça avec lui. Est-ce possible de connaître tes questions sur le sujet?

Merci!

Michel Plamondon
Conseiller principal en communication/Senior Communications Advisor
Pêches et Océans Canada/Fisheries and Oceans Canada
Région du Québec/Quebec Region
Téléphone : 418-648-5419
Télécopieur/Fax: 418-648-4758
Michel.Plamondon@dfo-mpo.gc.ca

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Cormier, Mélanie

De: Lemire, Maryse
Envoyé: 31 mars 2017 07:36
À: Gros-Louis, Denis; Boudreau, Suzie
Cc: Rivierre, Antoine
Objet: TR: Letter to Honourable Minister Dominic Leblanc
Pièces jointes: 2017_MARMAC_draft agenda_clw.docx; Letter to minister concerning AMAC meeting.docx

PVI

Maryse

Maryse Lemire

Directrice régionale de la gestion des pêches
Pêches et Océans Canada / Gouvernement du Canada
Maryse.Lemire@dfo-mpo.gc.ca / Tél.: 418-648-5783

Fisheries Management Regional Director
Fisheries and Oceans Canada / Government of Canada
Maryse.Lemire@dfo-mpo.gc.ca / Tel.: 418-648-5783

Ma langue, une question de respect / My language, a matter of respect

De : Vincent, Patrick
Envoyé : 27 mars 2017 16:49
À : Lemire, Maryse <Maryse.Lemire@dfo-mpo.gc.ca>; de Lafontaine, Yves <Yves.deLafontaine@dfo-mpo.gc.ca>
Objet : TR: Letter to Honourable Minister Dominic Leblanc

Pour votre information

Patrick Vincent

Directeur général régional, Région du Québec
Pêches et Océans Canada / Gouvernement du Canada
104, rue Dalhousie, Québec, Qc, G1K 7Y7
Patrick.Vincent@dfo-mpo.gc.ca / Tél.: 418-648-4158

Regional Director General, Quebec Region
Fisheries and Oceans Canada / Government of Canada
104 Dalhousie Street, Québec, Qc, G1K 7Y7
Patrick.Vincent@dfo-mpo.gc.ca / Tel.: 418-648-4158

De : [redacted]
Envoyé : 27 mars 2017 16:30

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s.19(1)

À : Dominic Leblanc <dominic.leblanc@parl.gc.ca>
Cc : catherine.blewett@parl.gc.ca; Keith Colwell <min_dfa@gov.ns.ca>; Alan Chandler <alan.chandler@novascotia.ca>; Mark MacPhail <mark.macphail@novascotia.ca>; Lester, Brian <Brian.Lester@dfo-mpo.gc.ca>; Browne, Ryan <Ryan.Browne@dfo-mpo.gc.ca>; Gillis, Sheldon <Sheldon.Gillis@dfo-mpo.gc.ca>; [redacted] Waters, Christa <Christa.Waters@dfo-mpo.gc.ca>; Wentzell, Doug <Doug.Wentzell@dfo-mpo.gc.ca>; Hopper, Stephanie <Stephanie.Hopper@dfo-mpo.gc.ca>; Anderson, Kevin <Kevin.Anderson@dfo-mpo.gc.ca>; Vincent, Patrick <Patrick.Vincent@dfo-mpo.gc.ca>; Executive Director of Marine and Coastal AdvisoryServices Bruce <bruce.osbourne@novascotia.ca>; Ginny Boudreau <gcifa@gcifa.ns.ca>; kevin.reid@ocfa.on.ca; sean.fraser@parl.gc.ca; sean.fraser.c3@parl.gc.ca; [redacted] Mel Arnold <mel.arnold@parl.gc.ca>; Conservative Fisheries Critic Todd Doherty <todd.doherty@parl.gc.ca>; Cawthray, Jenness <cawthrayj.Cawthray@dfo-mpo.gc.ca>
Objet : Letter to Honourable Minister Dominic Leblanc

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s.16(2)(c)

AGENDA
Maritimes Region Mackerel Advisory Committee Meeting
March 23, 2017 - 13:00-16:00
Fairbanks Centre – Shubie Park
54 Locks Road, Dartmouth

Teleconference Details:
Dial-in: 1 877-413-4791
ID: [redacted]

Meeting Purpose: To continue with the new regional mackerel advisory committee, discuss and provide advice on matters relevant to the current management of mackerel fisheries in Maritimes Region, prepare for the upcoming Atlantic Mackerel Advisory Committee meeting.

Introductions (lead: Christa Waters, DFO Resource Management)

Science update (lead: Thomas Doniol-Valcroz, DFO Science)
- Review summary of results of assessment (March 7-8, 2017)
- Discussion of collecting biological samples and length frequency sheets

Marine Mammal Topics – Right Whale Action Plan and USA Import Regulations (lead: Alan Reeves, RM)
- Objective: to inform meeting participants of ongoing initiatives, inform of next steps,

Terms of Reference (lead: Christa Waters, RM)
- Objective: Get feedback from the group regarding membership, development of ToRs

Preliminary discussion on regional views regarding 2017 Canadian Atlantic Mackerel total allowable catch (TAC) (lead: Christa Waters, RM)
- Objective: Provide meeting participants an opportunity to share views and provide recommendations on what an appropriate TAC for 2017 might be, discuss, and consider how these views might factor into the broader discussion at AMAC

Discussion of other (regional) management measures for 2017, including:
- VO: 2006-050
- clear instructions on logbook and monitoring requirements
- Increase of dockside monitoring and daily hails
- Gear: Discussion on the use of handline for bait licence; use of autojigger when using handline on bait or commercial mackerel licences

Objective: Discuss any issues or suggested changes, consider need to implement appropriate controls given critical status of the stock

Safety at sea (lead: Industry/RM)
- Objective: This is an opportunity to discuss any matters related to safety at sea relevant to mackerel fisheries. This will be a standing item on meeting agendas going forward.

This meeting is not intended to go beyond 4 pm.

Pages 2008 to / à 2009
are withheld pursuant to section
sont retenues en vertu de l'article

19(1)

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Thomas, Tashina

From: Mallet, Pierre
Sent: March-31-17 8:48 AM
To: Thomas, Tashina; Gaudet, Mario
Subject: FW: Mackerel - management options under the MPFRs

From: Waters, Christa
Sent: March-29-17 9:49 AM
To: Lester, Brian
Cc: Mallet, Pierre; Dunne, Erin; Rivierre, Antoine; Cawthray, Jenness
Subject: FW: Mackerel - management options under the MPFRs

Hello Brian,
Here is what Greg sent me on the MPFR's. So this is where we could look at something on seasons and potentially gear.
Christa

From: Stevens, Greg
Sent: March 29, 2017 9:37 AM
To: Waters, Christa
Subject: Mackerel - management options under the MPFRs

Last year I looked at this for Halibut so I just pulled the relevant paragraph and substituted Mackerel.
Greg

The *Maritime Provinces Fishery Regulations* apply to Canadian fisheries waters. They do not apply to fishing carried out under the authority of the a licence issued under the *Atlantic Fishery Regulation, 1985* but the recreational mackerel fishery is not carried out under a licence.... so the MPFRs can apply. Subsection 16(1) of the MPFRs provides a mechanism to close all angling methods in Canadian fisheries waters or any portion thereof. Subsection 16(2) permits that to be done separately and independently for each species of fish found in those waters. I think we can prohibit the angling/hand-lining for mackerel by closing all the methods set out in Schedule III of those regulations or restrict the gear types permitted anywhere and anytime that DFO deems necessary for legitimate reasons. The definition of "angling" under the MPFRs includes a line held in the hand which could only be interpreted to include hand-line. Angling and hand-line are the only two methods authorized for recreational mackerel fishing.

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s.19(1)

Waters, Christa

From: Waters, Christa
Sent: March-31-17 3:36 PM
To: [redacted]
Cc: Lester, Brian
Subject: RE: FW: Atlantic Mackerel Advisory Committee / Comité consultatif du maquereau de l'Atlantique

Hello [redacted]

Yes, a seat was requested and the current membership did not support adding a recreational seat at the table. There is no other form with regard to mackerel with the exception of the Regional Mackerel Committee. As you know in Maritimes Region we are working on the terms of reference and membership for our mackerel committee and we intend to have recreational interests as members at that table.

That being said, the mackerel fishery is lead out of Ottawa and representation at our regional committee does not get you a seat at the table for the Atlantic wide advisory committee. I have copied the AMAC chairman Brian Lester on this email. You should discuss next steps with him.

I hope this helps.

Christa

From: [redacted]
Sent: March 31, 2017 3:23 PM
To: Waters, Christa
Subject: Re: FW: Atlantic Mackerel Advisory Committee / Comité consultatif du maquereau de l'Atlantique

Hi Christa Sorry I could not make it yesterday but I guess when things catch up to you there's not much we can do about it. [redacted] sent me an e-mail saying he requested a seat on the board for NFAH and I presume you did too, but said it was rejected,is that true? If that is true, is there other recreational on the board that I don't know about? I know we have a right to be there, so before I go further with this I would need these answers. I would appreciate a quick response. Thanks.

On 29/03/2017 8:12 PM, Waters, Christa wrote:

> Hello,
>
> There is now going to be a call in line, but it is one way. So you can hear, but will not be able to speak. Please see details below.
>
> We have the seiner and seafood producer reps identified for seats at the table. For the three Inshore seats at the table, I have a list of ten-12 people who asked for a seat. Please come and speak with me before the meeting and I will offer some suggestions for the sharing those seats.
>
> Thanks,
>
> Christa

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s.16(2)(c)

From: Browne, Ryan
Sent: Wednesday, March 29, 2017 4:11 PM
Subject: Atlantic Mackerel Advisory Committee / Comité consultatif du maquereau de l'Atlantique

SENT ON BEHALF OF BRIAN LESTER, CHAIR, ATLANTIC MACKEREL ADVISORY COMMITTEE (AMAC)
ENVOYÉ DE LA PART DE BRIAN LESTER, PRÉSIDENT, COMITÉ CONSULTATIF DE MAQUEREAU ATLANTIQUE (CCMA)

Hello,

Please be advised that the Atlantic Mackerel Advisory Committee meeting will be taking place Thursday, March 30, 2017 in Halifax at the **Delta Halifax Hotel**, 1990 Barrington Street, Scotia Square, Halifax, NS. (902) 425-6700).

Due to inclement weather in Halifax, there will be two conference lines put in place to permit you to listen to the proceedings of the Atlantic Mackerel Advisory Committee on March 30. Please note, the phone lines are one-way. As such, you may call in on these lines to hear the proceeding; however,you will not be able to provide comments to the meeting on the phone lines.

You are welcome to provide your recommendations or comments in writing following the meeting directly to the Chair, Brian Lester at Brian.Lester@dfo-mpo.gc.ca or to Jenness Cawthray at Jenness.Cawthray@dfo-mpo.gc.ca . Please provide all input by April 5, 2017 so that views can be considered in the development of management measures for 2017 and 2018.

ENGLISH:
Conference ID [redacted]
Toll-free Dial-in number 1 877-413-4788

FRENCH:
Conference ID [redacted]
Toll-free Dial-in number 1 877-413-4790

Bonjour,

Veuillez prendre note que la réunion du Comité consultatif sur le maquereau de l'Atlantique aura lieu le jeudi 30 mars 2017 à Halifax, au **Delta Halifax Hotel**, 1990, rue Barrington, Place Scotia, Halifax (N.-É.). (902) 425-6700).

En raison des intempéries à Halifax, deux lignes de conférence seront mises en place pour vous permettre d'écouter les délibérations du Comité consultatif sur le maquereau de l'Atlantique le 30 mars. Veuillez noter que les lignes téléphoniques sont à sens unique. En tant que tel, vous pouvez composer ces numéros pour entendre la procédure; Toutefois, vous ne pourrez pas fournir de commentaires à la réunion à travers des lignes téléphoniques.

Nous vous invitons à faire parvenir vos recommandations ou commentaires par écrit après la réunion directement au président Brian Lester à Brian.Lester@dfo-mpo.gc.ca ou à Jenness Cawthray à Jenness.Cawthray@dfo-mpo.gc.ca. Veuillez fournir tous vos commentaires d'ici le 5 avril 2017 afin que les points de vue puissent être pris en compte dans l'élaboration de mesures de gestion pour 2017 et 2018.

ANGLAIS:
Conférence ID [redacted]

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s.16(2)(c)

Numéro sans frais 1 877-413-4788

FRANÇAIS:
Conférence ID [redacted]
Numéro sans frais 1 877-413-4790

Thank you,
Merci,
Ryan Browne
Administrative Assistant, Resource Management
Fisheries and Oceans Canada / Government of Canada
ryan.browne@dfo-mpo.gc.ca / Tel: 613-991-1833

Adjoint Administratif, Gestion intégrée des ressources
Pêches et Océans Canada / Gouvernement du Canada
ryan.browne@dfo-mpo.gc.ca / Tél. : 613-991-1833

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s.19(1)

Waters, Christa

From: Waters, Christa
Sent: March-31-17 3:35 PM
To: [redacted]
Subject: RE: FW: Atlantic Mackerel Advisory Committee / Comité consultatif du maquereau de l'Atlantique

Hello,
I am going to send you another email on this with the chair of AMAC copied in. You are right, there is no other form but the AMAC. We do have our regional committee, but that is not where the bigger, region wide issues are discussed.
Christa

From: [redacted]
Sent: March 31, 2017 3:23 PM
To: Waters, Christa
Subject: Re: FW: Atlantic Mackerel Advisory Committee / Comité consultatif du maquereau de l'Atlantique

Hi Christa Sorry I could not make it yesterday but I guess when things catch up to you there's not much we can do about it. [redacted] sent me an e-mail saying he requested a seat on the board for NFAH and I presume you did too, but said it was rejected,is that true? If that is true, is there other recreational on the board that I don't know about? I know we have a right to be there, so before I go further with this I would need these answers. I would appreciate a quick response. Thanks.

On 29/03/2017 8:12 PM, Waters, Christa wrote:

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> Thanks,
>
> Christa
>
> ---
>
> **From:** Browne, Ryan
> **Sent:** Wednesday, March 29, 2017 4:11 PM
> **Subject:** Atlantic Mackerel Advisory Committee / Comité consultatif du maquereau de l'Atlantique
>
> SENT ON BEHALF OF BRIAN LESTER, CHAIR, ATLANTIC MACKEREL ADVISORY COMMITTEE (AMAC)
> ENVOYÉ DE LA PART DE BRIAN LESTER, PRÉSIDENT, COMITÉ CONSULTATIF DE MAQUEREAU ATLANTIQUE (CCMA)
>
> Hello,

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s.16(2)(c)

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ANGLAIS:
Conférence ID [redacted]
Numéro sans frais 1 877-413-4788

FRANÇAIS:
Conférence ID [redacted]
Numéro sans frais 1 877-413-4790

Thank you,
Merci,
Ryan Browne

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Administrative Assistant, Resource Management
Fisheries and Oceans Canada / Government of Canada
ryan.browne@dfo-mpo.gc.ca / Tel: 613-991-1833

Adjoint Administratif, Gestion intégrée des ressources
Pêches et Océans Canada / Gouvernement du Canada
ryan.browne@dfo-mpo.gc.ca / Tél. : 613-991-1833

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Krohn, Martha

From: Krohn, Martha
Sent: April-04-17 8:51 AM
To: Castonguay, Martin; Doniol-Valcroze, Thomas; Marentette, Julie; Duplisea, Daniel
Subject: RE: q mackerel question

Categories: Red Category

Thanks very much Thomas and Martin! We have adjusted the wording accordingly.

From: Castonguay, Martin
Sent: April-04-17 8:46 AM
To: Doniol-Valcroze, Thomas; Marentette, Julie; Krohn, Martha; Duplisea, Daniel
Subject: RE: q mackerel question

Thomas is correct. No new search for new spawning grounds is planned.

Martin

De : Doniol-Valcroze, Thomas
Envoyé : 3 avril 2017 06:51
À : Marentette, Julie; Krohn, Martha; Duplisea, Daniel
Cc : Castonguay, Martin
Objet : RE: q mackerel question

Hi Martha,

Julie is correct; there are no upcoming searches for new spawning areas that I am aware of.

The other text in red on increasing knowledge of changes in Mackerel distribution refers to an ongoing research project (IGS-funded post-doc) investigating whether environmental changes (temperature, plankton) have affected the spawning habitat of mackerel or may have resulted in shifts in spatial distribution.

Thomas

De : Marentette, Julie
Envoyé : 31 mars 2017 10:14
À : Krohn, Martha; Duplisea, Daniel; Doniol-Valcroze, Thomas
Cc : Castonguay, Martin
Objet : RE: q mackerel question

Hi Martha,

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I am almost certain there are no upcoming searches for new spawning areas. This work was done in 2015-2016 and is part of a MSc student's thesis at MUN.

Best regards,

Julie Marentette, Ph.D.

Science Advisor, Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Julie.Marentette@dfo-mpo.gc.ca /Tel: 613-943-2098

Conseillère scientifique, Sciences des populations halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Julie.Marentette@dfo-mpo.gc.ca /Tél: 613-943-2098

From: Krohn, Martha
Sent: March-31-17 9:07 AM
To: Marentette, Julie; Duplisea, Daniel; Doniol-Valcroze, Thomas
Cc: Castonguay, Martin
Subject: RE: q mackerel question

Thanks Julie!
This is the text going to the Deputy shortly , can someone validate the text, I am wondering especially about the red.
Thanks to you all,
Martha

The results of the science stock assessment carried out in 2014 indicated a continual decline in the Atlantic mackerel fishery. Our response to this decline has been a steady reduction in total allowable catch (TAC). Specifically, over the last six years, DFO has steadily reduced the TAC from 60,000 tonnes to 8,000 tonnes.

-A stock assessment has been completed for 2017 and will inform the 2017-2018 TAC decision.

DFO has and will continue to carry out increased scientific research and new resource management initiatives to help promote the sustainability of the mackerel fishery:
•Gather updated data from industry to support stock assessments;
• Improve monitoring of commercial and bait fisheries
•Increase its knowledge of changes in Mackerel distribution;
•Increase engagement with US scientists to improve the stock assessment for this transboundary stock;
•Increase its knowledge of the impact of bait or recreational fisheries and working with industry to find new sources (such as herring) for bait; and
•Continue to carry out a new egg survey to determine if there are any new or significant spawning areas for mackerel off the northeast coast of Newfoundland and Labrador in collaboration with industry and other stakeholders.

-On October 14, 2016, Fisheries and Oceans Canada issued a Variation Order to close the mackerel fishery for the year as the total allowable catch (TAC) was estimated to be fully harvested. This was the first ever closure of the mackerel fishery as the TAC had never been reached in any year since one was established in 1987. There have been good signs of recruitment over the past 1-2 years which may have contributed to the increased catches in 2016.

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There was no industry interest in the development of a rebuilding plan at the last meeting of AMAC, (in 2014), given stakeholders did not endorse the stock assessment presented at that time.
It is hoped that with an improved assessment available in late March, that there will be more interest and involvement of stakeholders in the establishment of a Rebuilding Plan Working Group of AMAC to support future viability of this stock. The Department will request industry participation on the working group at the AMAC meeting on March 30, 2017 in hopes that the working group could meet later in 2017 to start the process for a rebuilding plan for this stock.

-----Original Message-----
From: Marentette, Julie
Sent: March-30-17 6:24 PM
To: Krohn, Martha; Duplisea, Daniel; Doniol-Valcroze, Thomas
Cc: Castonguay, Martin
Subject: RE: q mackerel question

Hi all,

Perhaps this is referring to ongoing analyses regarding genetics of fish from 3KL, and otolith microchemistry differentiating northern and southern contingent fish?

Martin may know more also?

From: Krohn, Martha
Sent: March 30, 2017 16:26
To: Duplisea, Daniel; Doniol-Valcroze, Thomas
Cc: Marentette, Julie
Subject: q mackerel question

Hi Thomas, Dan, and Julie

Maybe you are all at AMAC...
The SCOFO material going to DM in the morning says under mackerel that "we are doing Science activities to increase our knowledge about mackerel distribution". Is this true?
I should now that but don't seem to recall. I know we there were egg surveys to look for additional spawning areas. Is that work ongoing? I am thinking not.

Thanks,
Martha
Martha Krohn
National Manager, Fish Population Science Fisheries and Oceans Canada / Government of Canada martha.krohn@dfo-mpo.gc.ca/<mailto:martha.krohn@dfo-mpo.gc.ca/> Tel: 613-998-4234 new number New Office # 12E245

Sciences des populations halieutiques
Pêches et Océans Canada / Gouvernement du Canada martha.krohn@dfo-mpo.gc.ca<mailto:martha.krohn@dfo-mpo.gc.ca> / Tél. : 613-998-4234

Martha Krohn
[cid:image001.jpg@01D0DE4B.8F1F6FE0]

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s.19(1)

Smith, Kathleen

From: Saindon, Carole
Sent: April-04-17 10:58 AM
To: Gareau, Laura; Lavigne, Kevin
Cc: MacNeil, Vince; Hughes, Vincent; Hopkins, Lillian; Butcher, Ashley; Trudeau, Miriam; Walker-Sisttie, Rhonda; Nielsen, Ingrid; Horgan, Carole; Plamondon, Michel; Smith, Kathleen; Beamish, Kayla; Stanek, Frank; Chow, Vance; Gilbert, Sarah; NCR Media RCN (DFO/MPO)
Subject: RE: FOR APPROVAL : Interview request - Le Radar - Mackerel Advisory Committee meeting

Hi Laura,

OK to respond to this one?

cs

From: Saindon, Carole
Sent: April-04-17 9:05 AM
To: Gareau, Laura; Lavigne, Kevin
Cc: MacNeil, Vince; Hughes, Vincent; Hopkins, Lillian; Butcher, Ashley; Trudeau, Miriam; Walker-Sisttie, Rhonda; Nielsen, Ingrid; Horgan, Carole; Plamondon, Michel; Smith, Kathleen; Beamish, Kayla; Stanek, Frank; Chow, Vance; Gilbert, Sarah; NCR Media RCN (DFO/MPO)
Subject: FOR APPROVAL : Interview request - Le Radar - Mackerel Advisory Committee meeting
Importance: High

Hi Laura,

Please see the inquiry below on the Mackerel Advisory Committee meeting from a Gaspé area weekly.

We are proposing a written response due to the unavailability of a francophone spokesperson this week. We will let the reporter know that we are happy to arrange an interview next week if that works for him.

Specific Qs are below. For your approval by 10:30 this morning please.

Many thanks, Carole

ISSUE: [redacted] journalist from Le Radar, seeking an interview on the Mackerel Advisory Committee Meeting.

Voilà en somme, quelques points que je souhaiterais aborder, puisque j'ai déjà couvert la dernière évaluation de long en large :

- Quel est le scénario proposé aux gestionnaires lors du Comité consultatif?
- Le TAC proposé par les scientifiques?
- À quel pourcentage d'exploitation de la biomasse ce TAC correspond?
- La date estimée du début de la pêche commerciale.

DEADLINE: mardi 4 avril à midi

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APPROVED BY:
Randy Jenkins, A/DG and Phillippe Morel, ADM, EFM

PROPOSED WRITTEN RESPONSE: (to be translated)
The Department undertook a new stock assessment for Atlantic mackerel this spring. This updated assessment was discussed with members of the Atlantic Mackerel Advisory Committee on March 30 . There were a variety of views expressed by members of the advisory committee and these views would be considered in the decision making process.

While the science assessment has shown some preliminary signs of rebuilding, the stock assessment indicates that the stock remains in the critical zone under DFO's Precautionary Approach framework. Science did not provide a TAC recommendation but did provide projections on the expected impacts of various harvest levels based on their latest stock assessment.

There is no TAC decision at this time. The Department will develop options over the coming weeks with the intent of taking a decision by early May. Management decisions for this fishery will consider long-term conservation and sustainability of the stock and take into account the best available science, the department's management plan, and views expressed by stakeholders at the recent consultation with industry.

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s.19(1)

Patterson, Pauline

De: Rivierre, Antoine
Envoyé: April-04-17 4:24 PM
À: Hardy, Magalie; Richard, Josée; Morin, Mathieu; Morin, Bernard; Arseneau, Cédric; Trottier, Steve; Drapeau, André
Cc: Boudreau, Suzie; Gros-Louis, Denis; Simard, France; Lemelin, Dario; Rowsell, Andrew; Naud, Marc; Sylvestre, Jean-François; Bourgeois, Raoul; Dickner, Daniel
Objet: Comité consultatif Maquereau Atlantique 30 mars 2017
Pièces jointes: projections.docx; science_maquereau_AMAC.PDF

Bonjour à tous,
Voici quelques faits saillants du comité consultatif sur le maquereau qui s'est tenu le 30 mars dernier à Halifax.
Un appel conférence est planifié demain en après-midi pour faire la recommandation au ministre. Si vous avez des commentaires ou des questions, je vous invite donc à me les envoyer avant demain 12h.

Merci

Antoine

Étaient présents pour le Québec :

- Vincent Moffet (MAPAQ)
- [redacted] (RPPSG)
- [redacted] (RPPSG)
- [redacted] (RPPSG)
- [redacted] (APPIM)
- [redacted] (APBCN, par téléphone)

Présentation des sciences (Thomas D. Valcroz et Martin Castonguay

- Diminution importante des débarquements depuis 2006 qui ont atteint leur minimum historique en 2015 avec 4143 t
- Tendance similaire observée au É.U.
- La structure d'âge est très rétrécie avec pas de poissons de plus de 7 ans, mais on note une légère amélioration depuis 2013
- L'indice d'abondance issu du relevé des œufs dans le sud du golfe a atteint son niveau le plus bas en 2012 (14 568 t), puis a remonté lentement jusqu'à 52 667 t en 2016. Cette valeur reste très en deçà des indices d'abondance de plus de 750 000t observés dans les années 1980
- Selon le modèle, la **biomasse reproductrice en 2016 est de 40 000 tonnes** soit 40 % du Point Limite de référence fixé à 103 000 t.

Recommandation des sciences

- Étant donné que le stock se situe dans la zone critique, la capture totale (déclarées + non-déclarées) devrait être suffisamment faible pour favoriser le rétablissement.
- 12 scénarios de capture (de 0 à 30 000 tonnes capturées en 2017 et 2018) permettent d'obtenir :
  - les probabilités que la taille du stock augmente en 2019
  - Les probabilités que le stock sorte de la zone critique en 2019

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Exemple : avec des captures de 30 000 t en 2017 et 30 000 t en 2018, on a 16 % de chance que la taille du stock augmente en 2019 et 2 % de chance que le stock sorte de la zone critique (voir projections en pièce jointe)

Discussion sur les mesures de surveillance et de monitoring de la pêche

- Besoin de changer les règles actuellement en place. Les récépissés d'achat ne suffisent plus dans le sud du golfe et il est impossible de continuer avec le système actuel.
- PEIFA est prêt à travailler avec le MPO pour implanter et rendre obligatoire les journaux de bord.
- Bien que plusieurs outils soient déjà en place, c'est une responsabilité partagée entre l'industrie et le Ministère pour s'assurer que les captures soient bien déclarées.
- Le niveau de surveillance de la part de C&P doit augmenter pour s'assurer de la conformité
- La région du golfe propose 100 % hail-in et 25% de vérification à quai, mais la surveillance à quai pour les petits débarquements est très cher !
- Afin d'améliorer la transmission des données, des conditions de permis mentionnant l'obligation de transmettre son journal de bord pour avoir de nouvelles conditions l'année suivante peuvent être envisagées
- Le RPPSG propose d'implanter des journaux de bord électronique pour faciliter le suivi et permettre la déclaration des captures qui sont transférées sur l'eau d'un bateau à l'autre
- Journaux de bord très peu couteux, une analyse va être faite par le MPO afin d'évaluer la possibilité d'implanter le eLog en 2018
- D'une manière générale, l'industrie est en faveur d'obliger la déclaration des captures, mais n'est pas favorable à la surveillance à quai

Discussions sur le TAC

- Pas de consensus autour de la table.
- Il semble que les petits poissons observés en 2016 soient un signe de recrutement. Débarquements américains de 2017 en très forte augmentation par rapport à 2016 (https://www.greateratlantic.fisheries.noaa.gov/aps/monitoring/atlanticmackerel.html). Cependant ces poissons n'apparaissent pas dans les données des scientifiques.
- Préoccupation de la part de l'industrie, si le niveau de déclaration des captures augmente que le TAC soit atteint trop rapidement
- En 2016 on estime que 6000 tonnes n'ont pas été déclarées.
- Terre-Neuve n'accepte pas les valeurs des projections et demande un Total de capture (déclarées et non déclarées) de 36 000 tonnes. Selon l'industrie et les transformateurs, la pêche est différente à l'extérieur du golfe. Le poisson est plus gros
- QC, NB, PEI et NS demande un total de capture (déclarées et non déclarées) de 20 000 tonnes
- Ecology Action Center sur la base de l'approche de précaution lettre-mandat du ministre réclame des captures totales qui ne dépassent pas 8 000 tonnes
- L'industrie demande également une mise à jour du TAC au bout d'un an en fonction de l'analyse des débarquements de 2017

Discussion sur la taille limite

- Pas de consensus
- Certaines régions demandent une augmentation à 270 mm (au lieu de 263 mmm) pour justifier une augmentation du quota.
- Cap-Breton réclame une diminution de la taille

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Pêche récréative

- Modification réglementaire sera proposée en 2018 pour permettre la mise en place d'une limite quotidienne

Antoine Rivierre

Conseiller principal p. i.,
Espèces pélagiques, mammifères marins
Gestion de la ressource et des affaires autochtones / Pêches et Océans Canada / Gouvernement du Canada
Antoine.rivierre@dfo-mpo.gc.ca / Tél. : 418.640.2636

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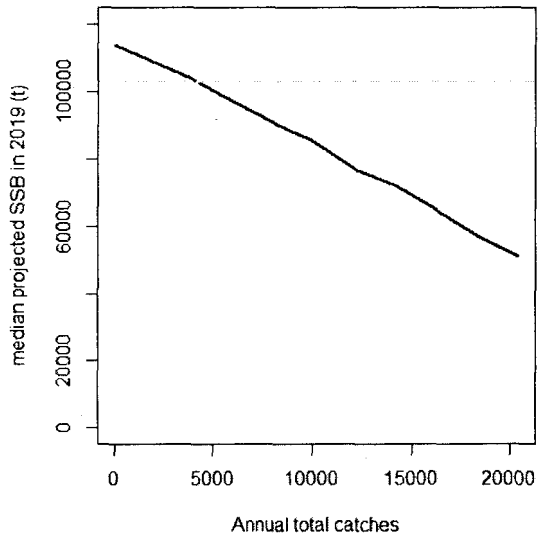
Government of Canada Gouvernement du Canada

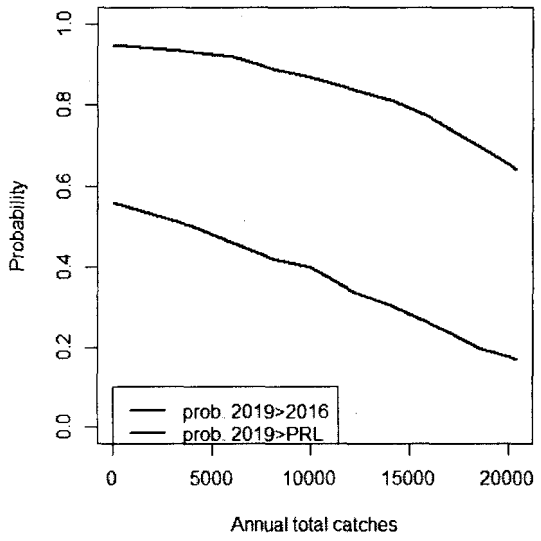
Canada

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Projections performed with the censored SCAA model to estimate SSB in 2019 and probability of exceeding management targets. Total catches (declared + undeclared) are fixed for 2017 and 2018. Natural mortality at age is the same as was used in hindcast modelling. Weight-at-age and proportions of mature fish are equal to the average of the last three years. Recruitment is drawn from a log-normal distribution around the mean value determined by the stock-recruitment relationship and the environmental factor (itself taken from a normal distribution with the mean and standard deviation of the entire time series).

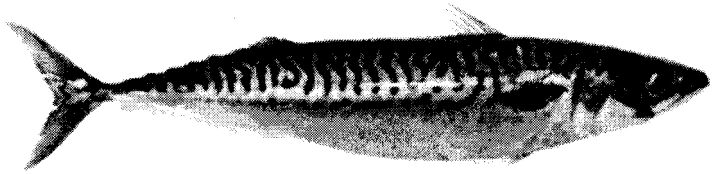
Total catches (t)		2017		2018		2019		
2017	2018	SSB (t)	Exp. Rate	SSB (t)	Exp. Rate	SSB (t)	prob. >2016	prob. >PRL
0	0	48,283	0.00	77,164	0.00	113,886	0.95	0.56
4,000	4,000	48,283	0.08	72,175	0.06	103,378	0.93	0.50
6,000	6,000	48,283	0.13	68,503	0.09	96,927	0.92	0.46
8,000	8,000	48,283	0.17	64,910	0.12	90,889	0.89	0.42
10,000	10,000	48,283	0.21	62,762	0.16	85,686	0.87	0.40
12,000	12,000	48,283	0.25	59,466	0.21	77,143	0.84	0.34
14,000	14,000	48,283	0.29	56,858	0.24	72,189	0.81	0.30
16,000	16,000	48,283	0.33	54,018	0.29	66,158	0.77	0.26
18,000	18,000	48,283	0.38	50,928	0.36	57,113	0.70	0.20
20,000	20,000	48,283	0.42	47,502	0.42	51,348	0.64	0.17





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Évaluation du maquereau de l'Atlantique dans les sous-zones 3 et 4



Thomas Doniol-Valcroze, Benoît Légaré,
Linda Girard, Mélanie Boudreau,
Elisabeth Van Beveren & Martin Castonguay

Institut Maurice-Lamontagne, Mont-Joli, Québec

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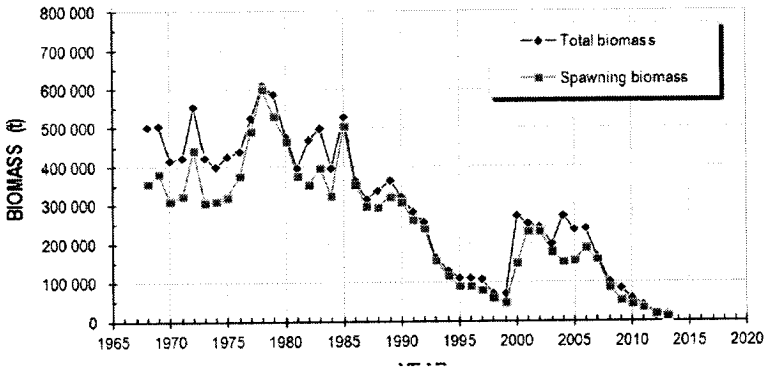
Calendrier d'évaluation

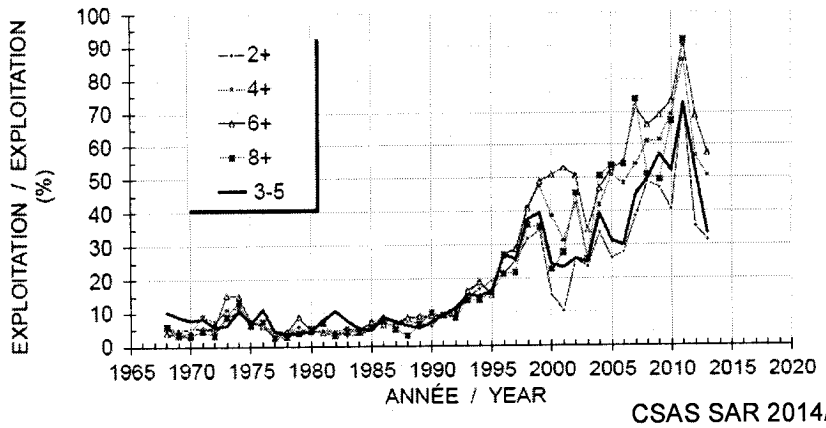
- Dernière évaluation: 2014
- Évaluation de 2016 reportée à 2017
- Décembre 2016: revue des intrants (œufs)
- Janvier 2017: revue cadre (modèle)
- Mars 2017: évaluation de la ressource
  - Utilisation du nouveau modèle
  - Mise à jour des données 2013, 2014, 2015, 2016
    - Débarquements
    - Données biologiques
    - Relevé des œufs

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Résumé de l'évaluation de 2014

- Débarquements commerciaux et biomasse ↓, mortalité par la pêche ↑
- Relevé des oeufs ↓, structure d'âge en contraction
- Abondance modélisée à son minimum historique en 2013 (~10 000 t)
- **Status: Critique**, car en dessous de trois possibles PRL
- Avis scientifique recommende TAC de 800 t
- Modèle prédit biomasse et taux d'exploitation irréalistes
- Ne prend pas les prises non-déclarées en compte





CSAS SAR 2014/030

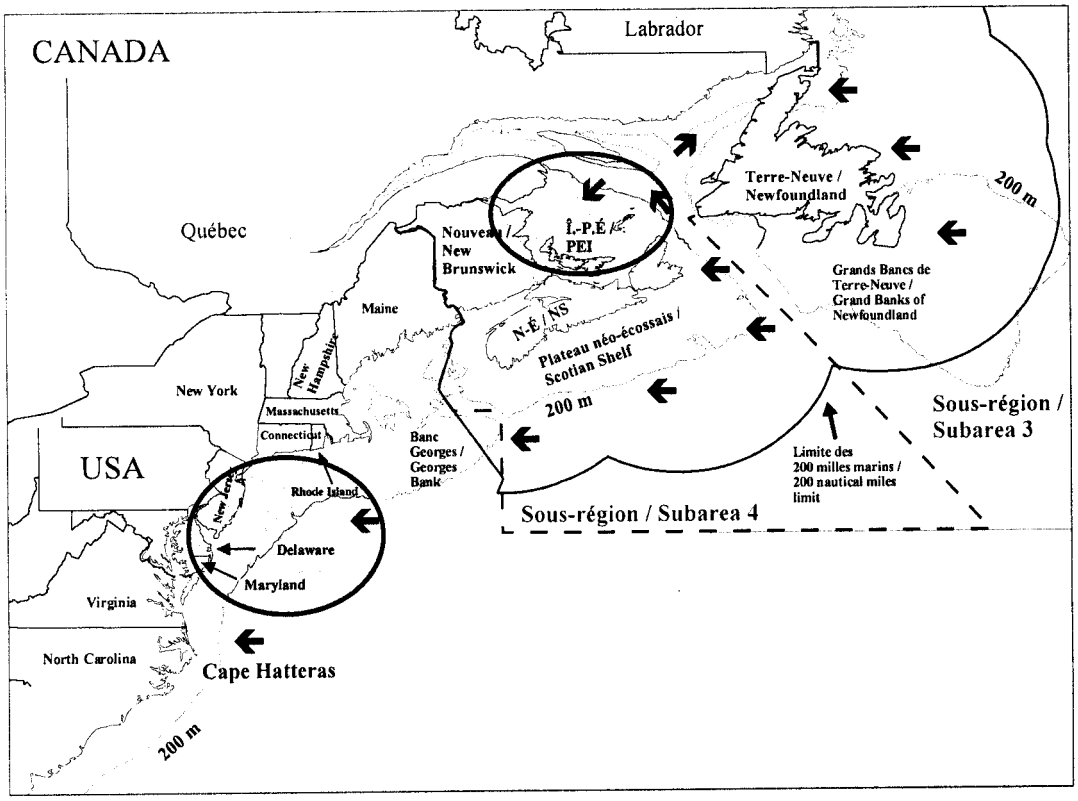
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Prises non-déclarées

- Maquereau utilisé comme appât pour la pêche au crabe et homard
- Une grande partie des prises ne sont pas rapportées: appât pour usage personnel, ventes de pêcheur à pêcheur, pêche récréative, logbooks non remplis
- Différences entre régions de gestion
- Cela crée un problème majeur affectant la qualité de l'évaluation

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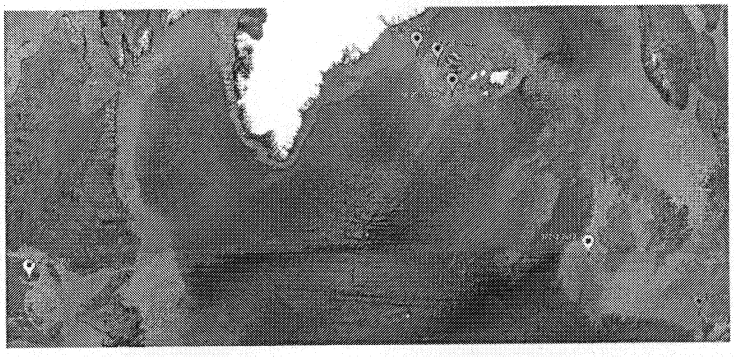
Distribution et migration



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Structure de population

- Les stocks de maquereau en Europe sont très abondants. Le CIEM a recommandé un TAC de **773 842 t** pour 2016
- Le maquereau maintenant abondant dans le centre de l'Atlantique (Islande et Groenland): TAC **85 000 t** au Groenland en 2015
- D'où provient ce maquereau du centre de l'Atlantique ?

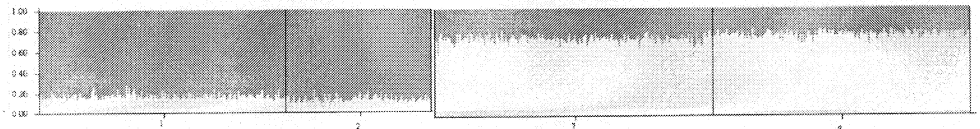


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Structure de population

- Deux études génétiques montrent que la population de maquereau de l'Amérique du Nord est génétiquement distincte de celle de l'Europe
  (Rodriguez-Ezpelata et al. 2016, Helyar et al. 2013; en préparation)
- Le maquereau de l'Islande et du Groenland provient exclusivement de l'Europe
- Les stocks canadiens et américains ne semblent pas distincts génétiquement bien que les études en question incluent peu d'échantillons de l'Amérique du Nord



002032

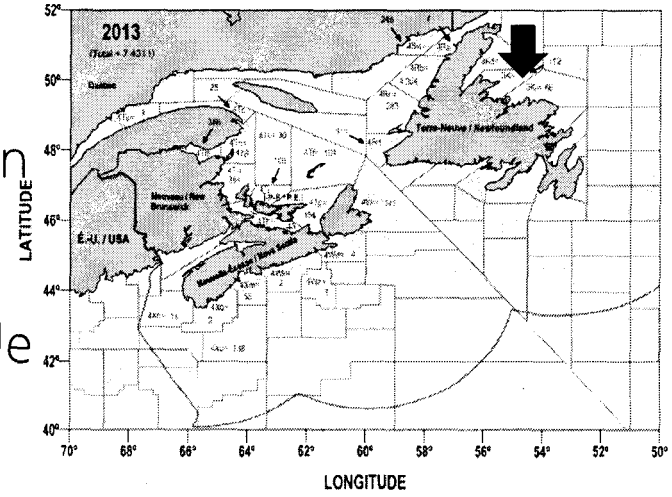
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Recherches en cours

- Collaborations pour augmenter le nombre d'échantillons et améliorer les études génétiques/génomiques
- Nouveaux outils moléculaires pour différencier les groupes reproducteurs canadiens et américains

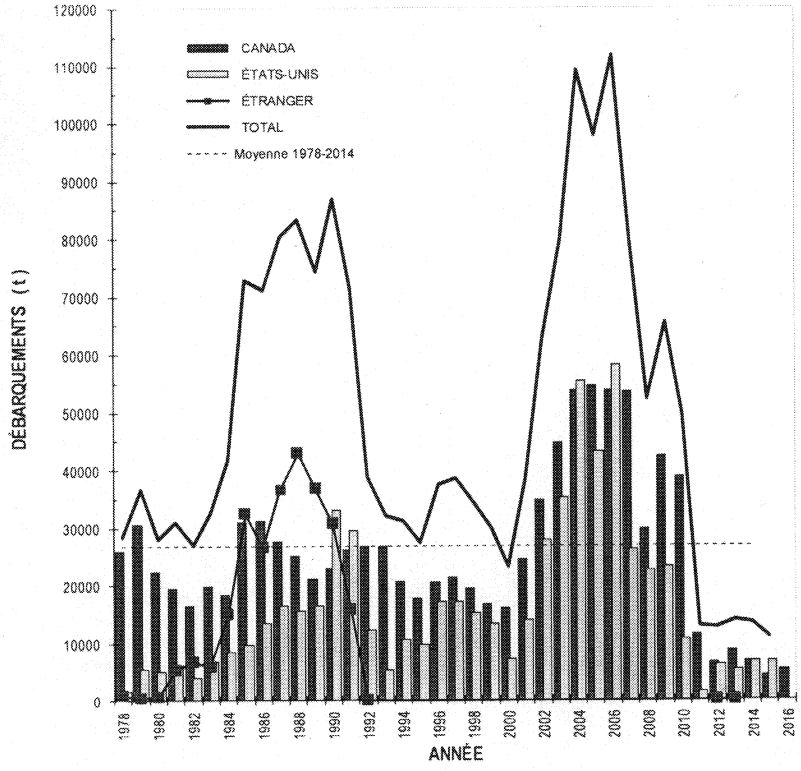
- La population abondante de l'Europe s'est-elle dispersée en Amérique du Nord ?

- D'où proviennent les jeunes de l'année capturés au nord de Terre-Neuve (3K) ?



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Prises commerciales 2013-2016

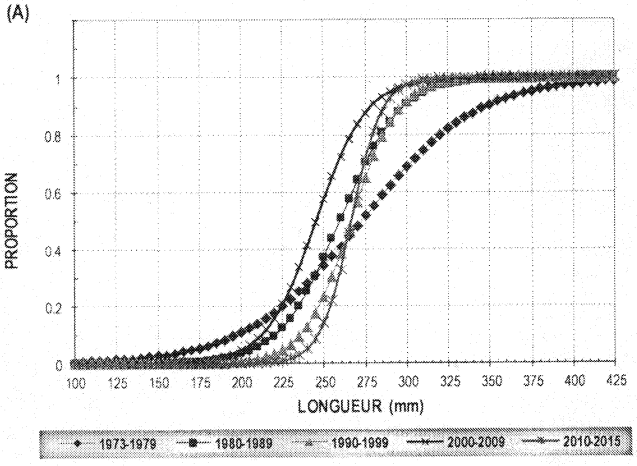


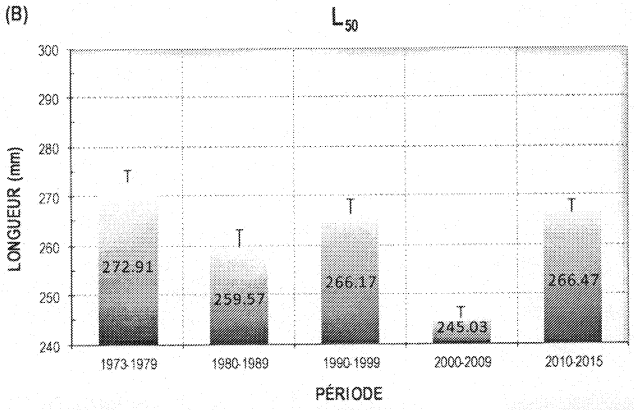
- Les débarquements commerciaux rapportés des sous-régions 3 et 4 de l'OPANO ont considérablement diminué au cours des dernières années. Entre 2005 et 2013, ils sont passés de 54 621 t à 8 663 t, pour atteindre 6 680 t en 2014 et 4 143 t en 2015. En 2016, le TAC de 8,000 t a été atteint.
- Les débarquements américains (commerciaux et récréatifs) des sous-régions 5 et 6 de l'OPANO ont aussi connu une baisse importante au cours des dernières années. Entre 2005 et 2012, ils sont passés de 43 220 t à 6 000 t et sont restés à ce niveau de 2013 à 2015.

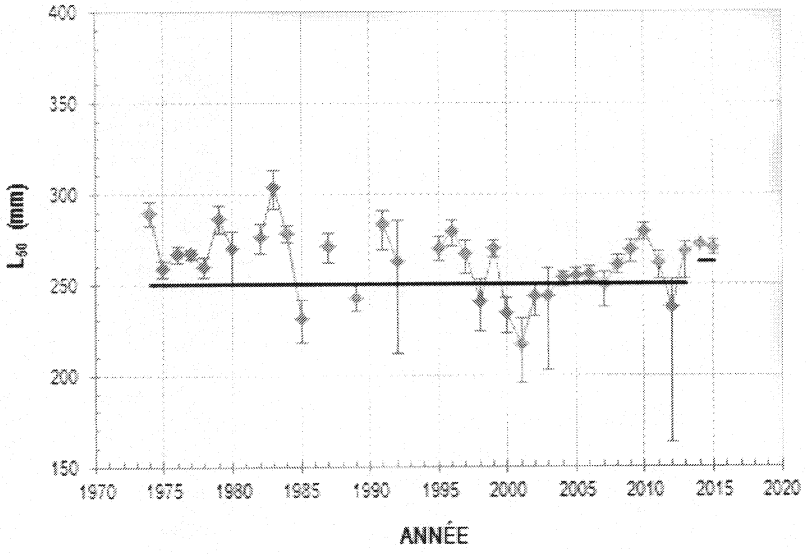
Prises 2016	
Terre-Neuve	4 610 t
Québec	852 t
Maritimes	1 203 t
Golfe	935 t (preliminaire)

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Longueur à 50% de maturité



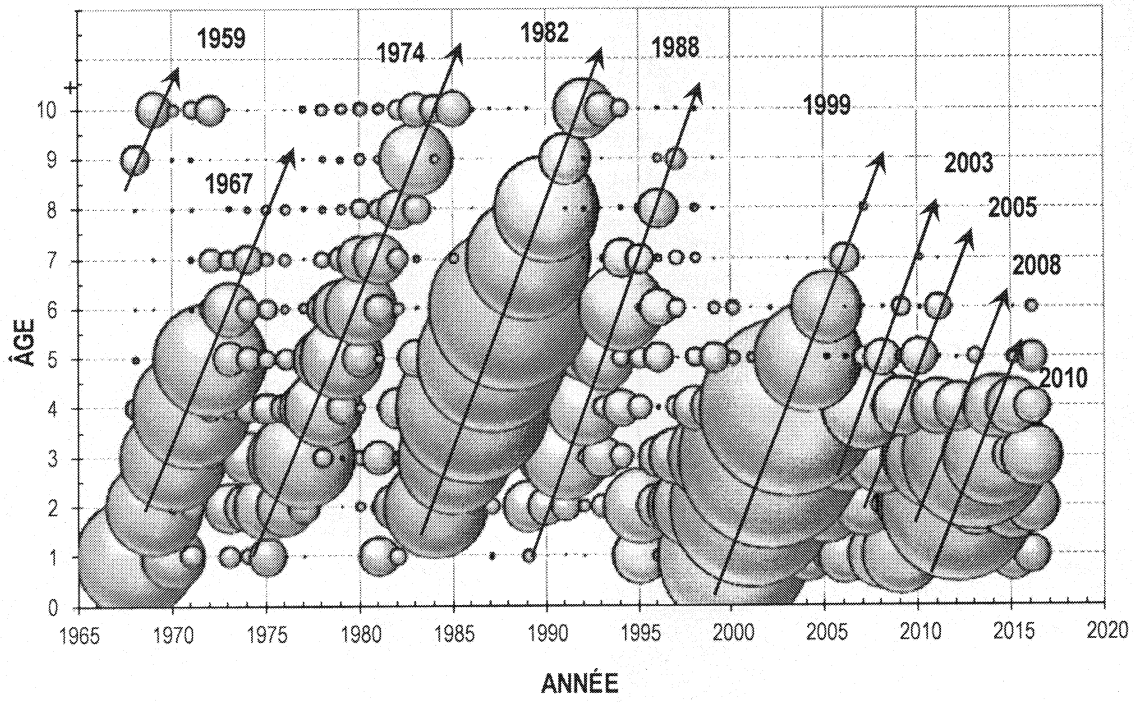




- Suite à son augmentation au cours des dernières années, la longueur à 50 % de maturité se maintient légèrement au-dessus de la longueur minimale de capture autorisée de 263 mm.

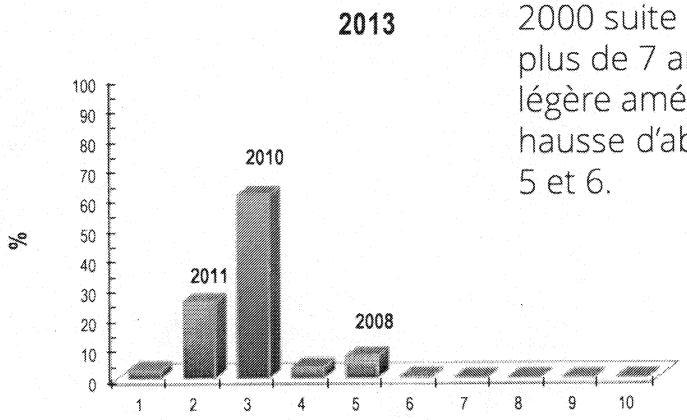
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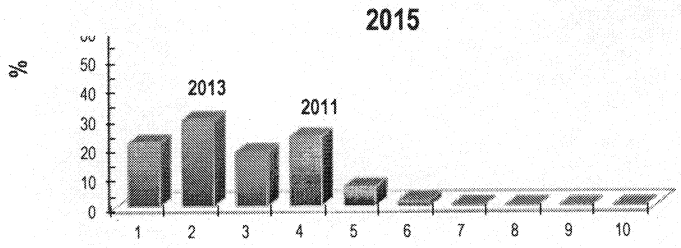
Prises à l'âge

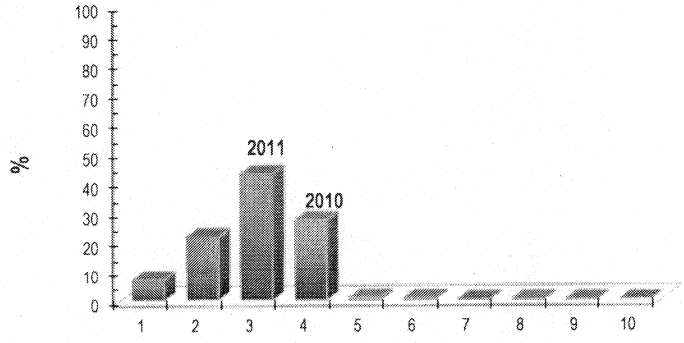


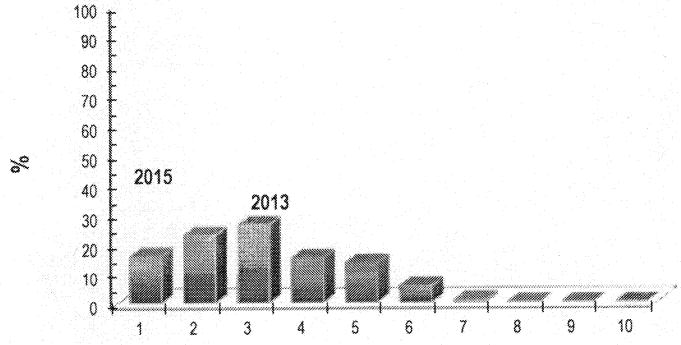
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- La structure d'âge au sein de la pêche s'est considérablement rétrécie depuis les années 2000 suite à la disparition des poissons de plus de 7 ans. Cependant, on observe une légère amélioration depuis 2013, avec une hausse d'abondance des maquereaux d'âge 5 et 6.





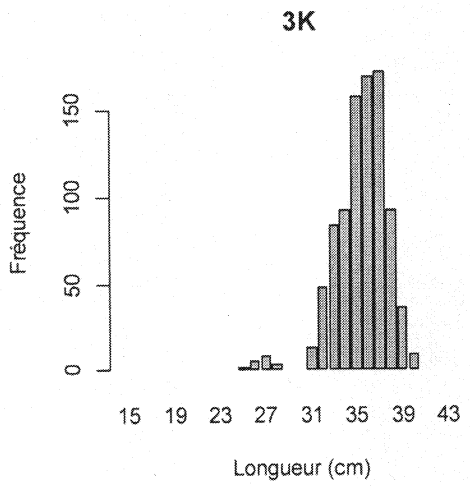


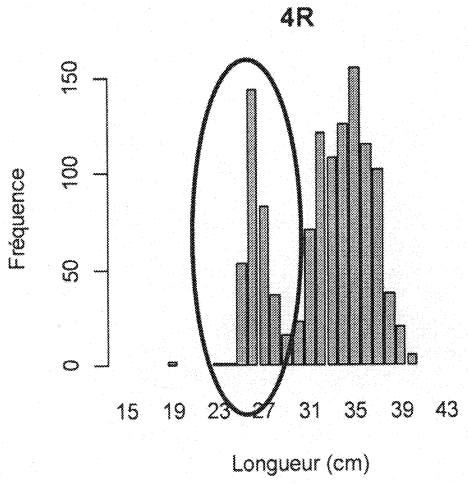


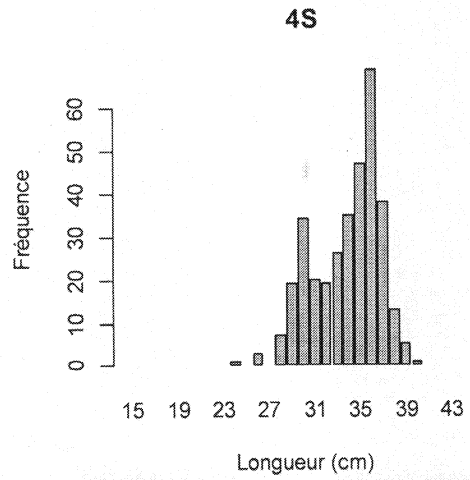
002037

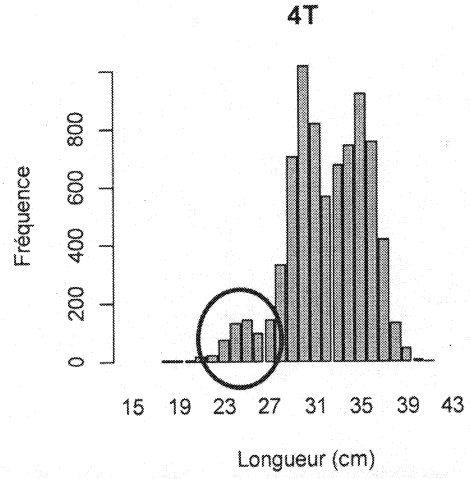
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Fréquences de longueur 2016

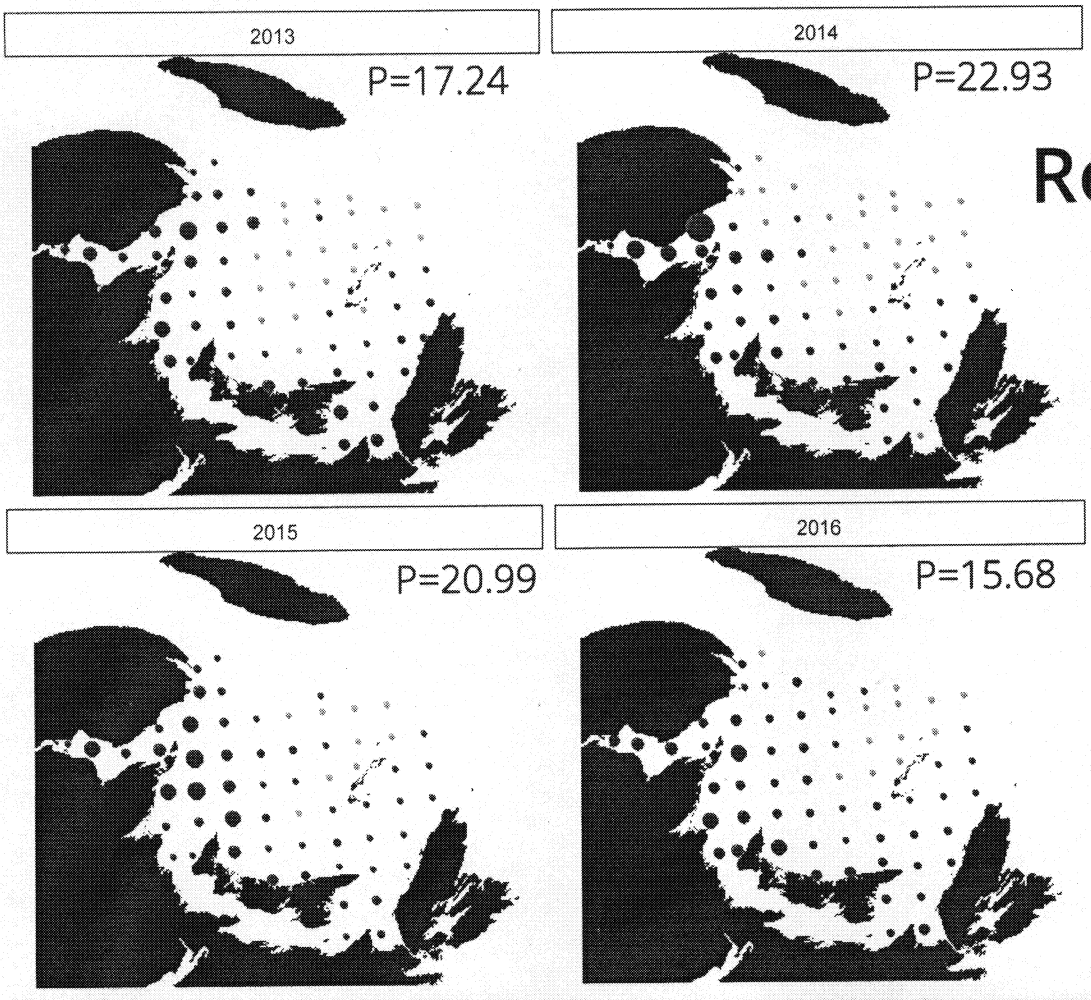








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Relevés des œufs

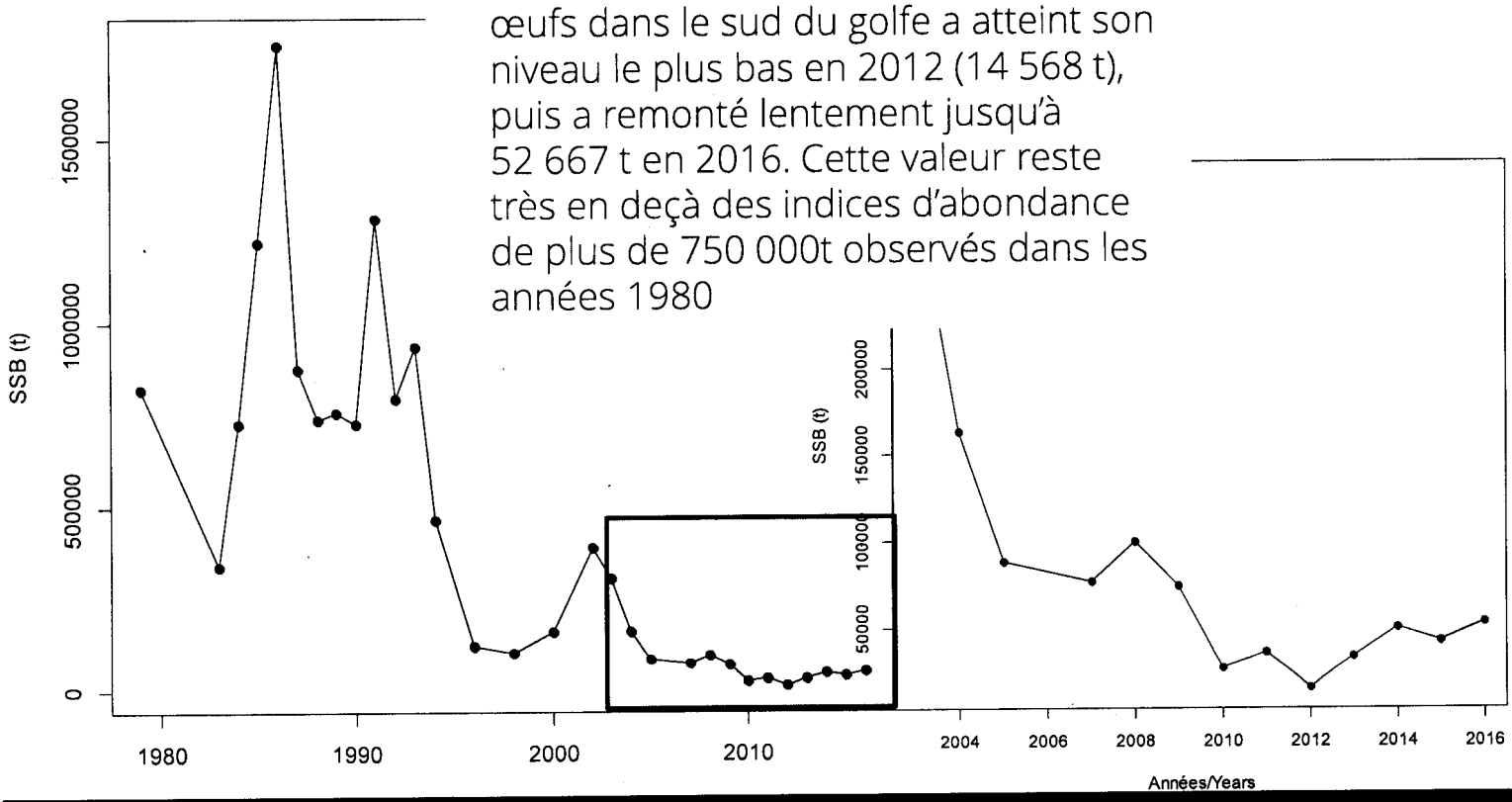
DEP
- 0
- 200
- 400
- 600

eggs
- absent
- present

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Indice d'abondance (œufs)

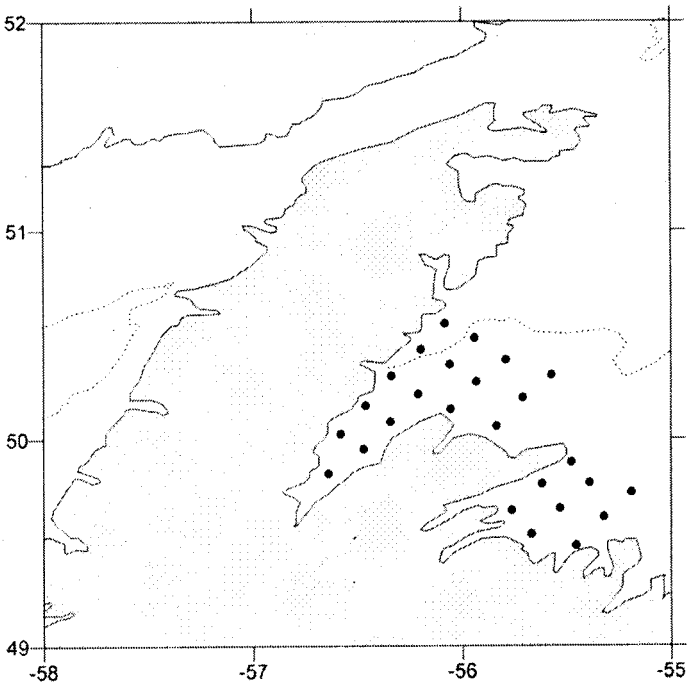
- L'indice d'abondance issu du relevé des œufs dans le sud du golfe a atteint son niveau le plus bas en 2012 (14 568 t), puis a remonté lentement jusqu'à 52 667 t en 2016. Cette valeur reste très en deçà des indices d'abondance de plus de 750 000t observés dans les années 1980



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Relevés additionnels

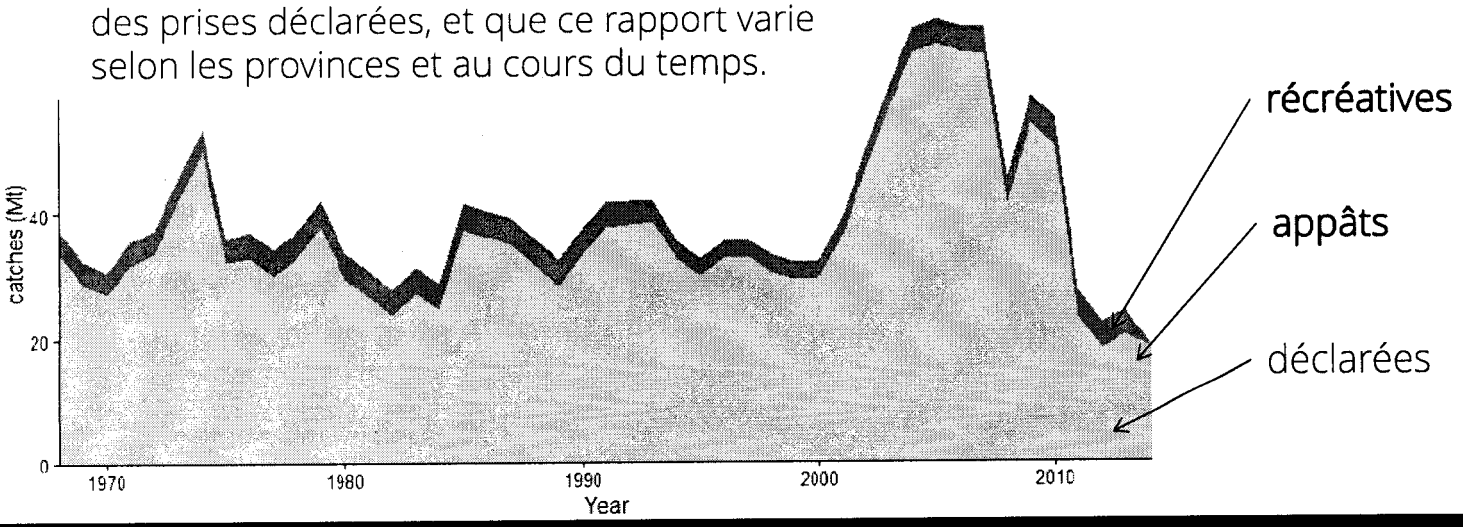
- **Objectif**: étendre les relevés (oeufs et larves) aux baies White et Notre Dame
- **Collaborateurs**: Dr. D. Robert (Memorial University), Dr. M. Castonguay & Dr. P. Pepin (MPO), Dr. E. Carruthers (FFAW)
- **Dates**: Juin-Août 2015 & 2016
- **Resultats**: aucun signe de ponte



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Prises non-déclarées

- La problématique des prises non-déclarées a été examinée à l'aide d'une synthèse des données disponibles sur les besoins en appât et sur les pêches récréatives, ainsi qu'à l'aide d'un sondage en ligne auprès des pêcheurs. Les deux approches montrent que les prises totales peuvent atteindre entre 150% et 200% des prises déclarées, et que ce rapport varie selon les provinces et au cours du temps.



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Sondage en ligne 2016

- 3453 mails (QC, NB, NE, IPE)
- Trois groupes facebook
- Radio IM
- Forums
- NovaNews

Input sought for mackerel research



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Représentativité

En comparaison:

1) Nombre de licences 2014 (DFO): 8082

=> 390 réponses viennent de pêcheurs avec licences

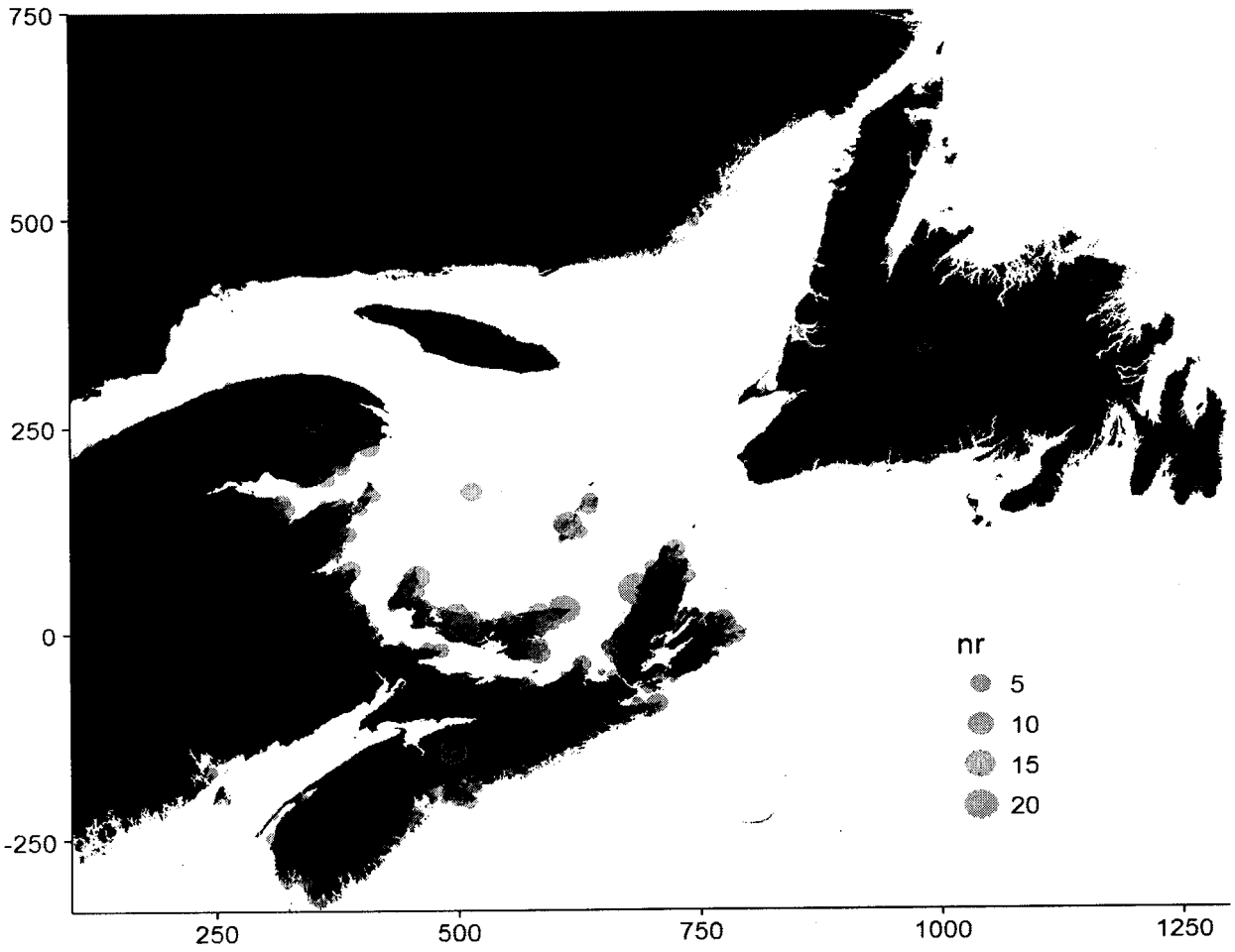
→ au moins 5%

SPECIES	NOVA SCOTIA		NEW BRUNSWICK		P.E.I. GULF	QUEBEC	NEWFOUNDLAND	TOTAL ATLANTIC
	MARITIMES	GULF	MARITIMES	GULF				
MACKEREL	1,909	655	75	1,112	1,258	808	2,265	8,082

2) Prises 2016: ~8000t (TAC)

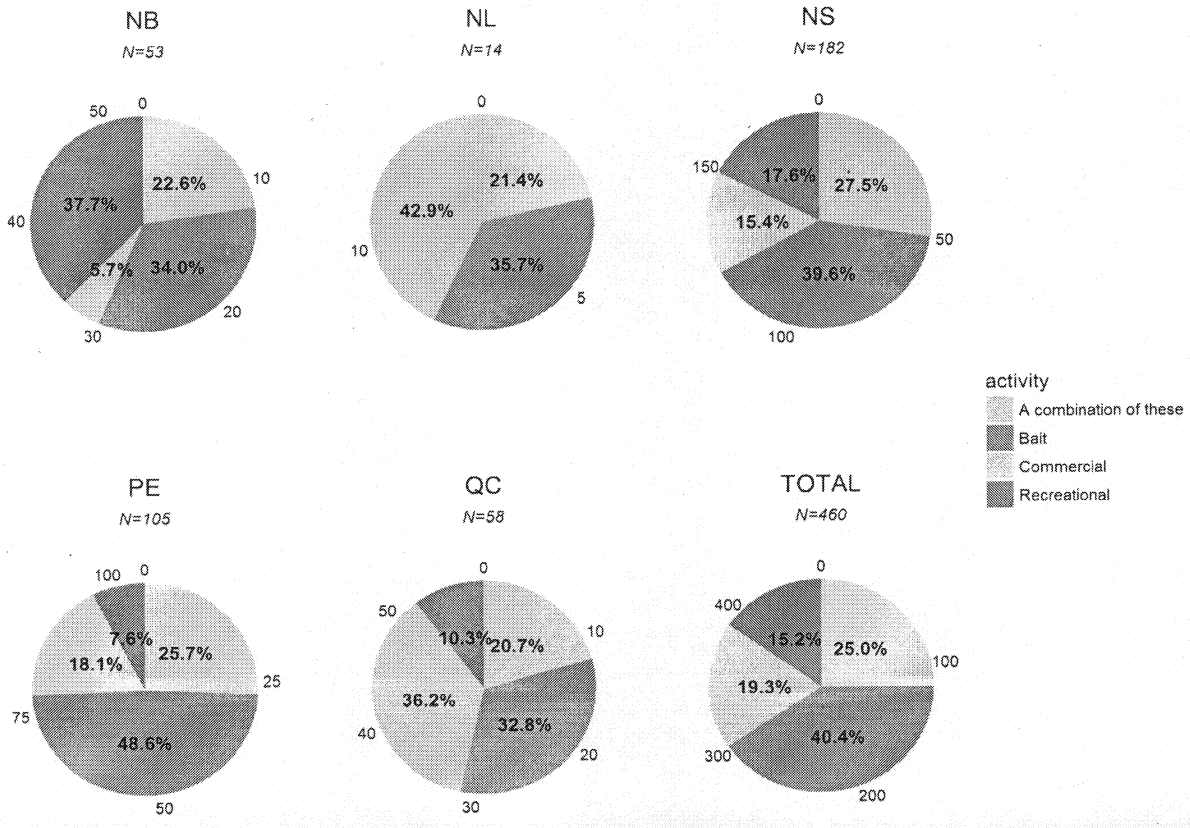
=> prises déclarées par les participants au sondage:1536t = 19%

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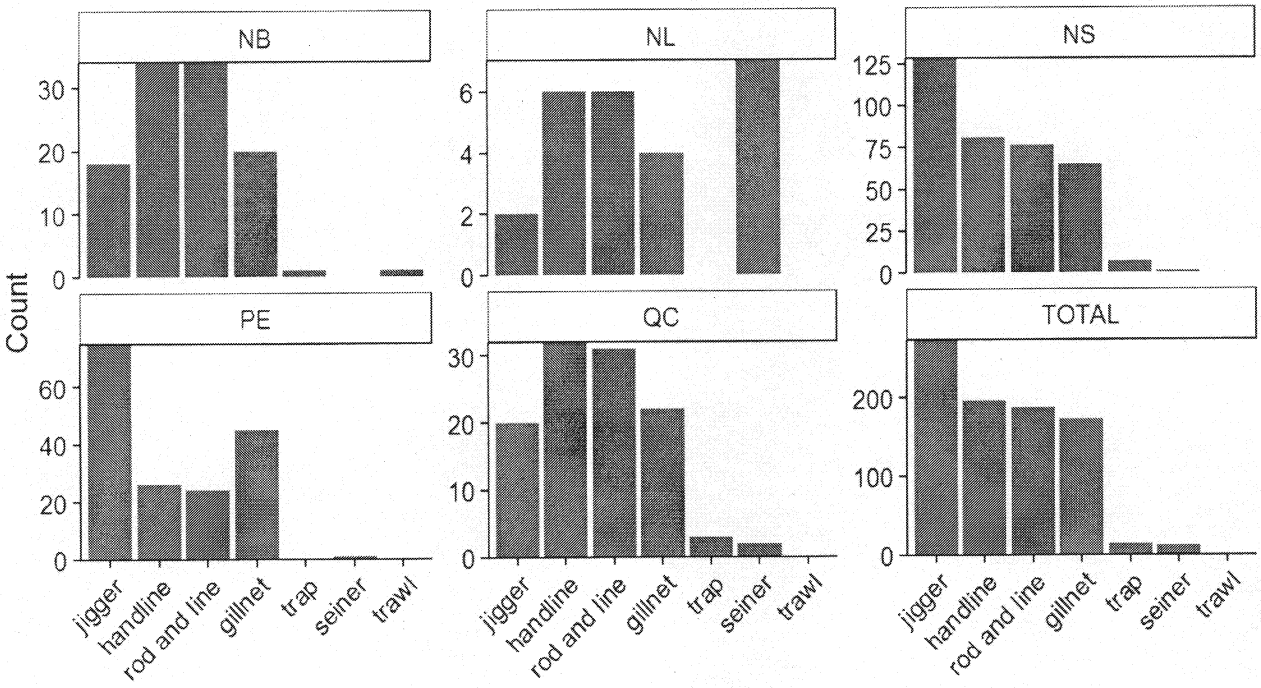
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Activité



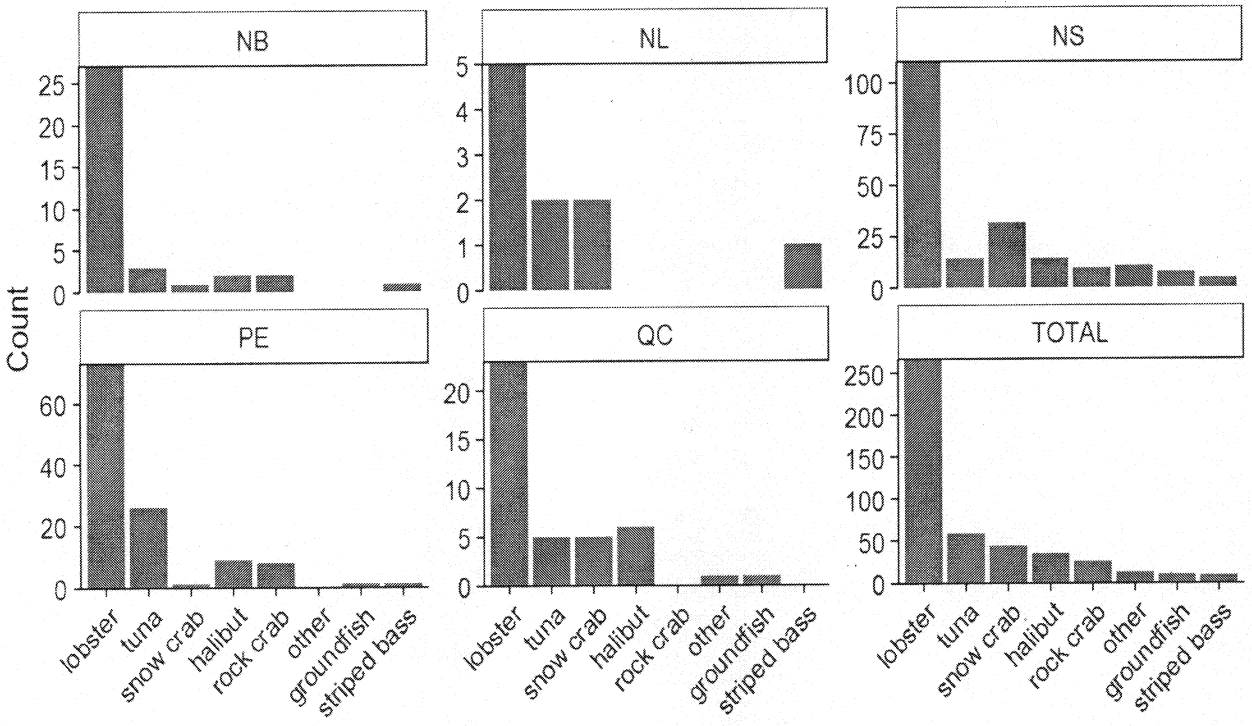
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Type d'engin



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Utilisation de l'appât

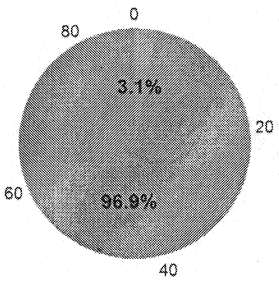


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Déclaré vs non-déclaré

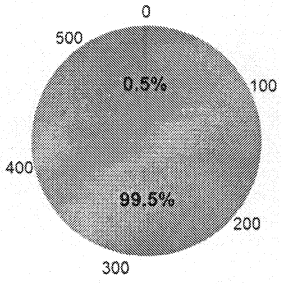
NB

87t (N=51)



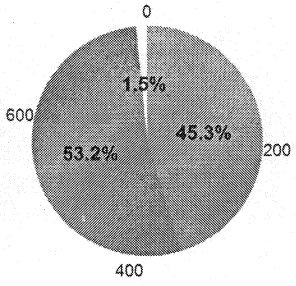
NL

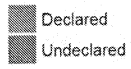
556t (N=11)



NS

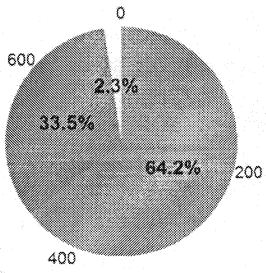
765t (N=183)





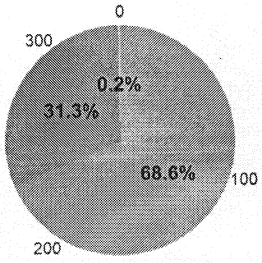
PE

696t (N=106)



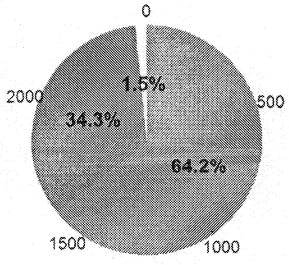
QC

336t (N=56)



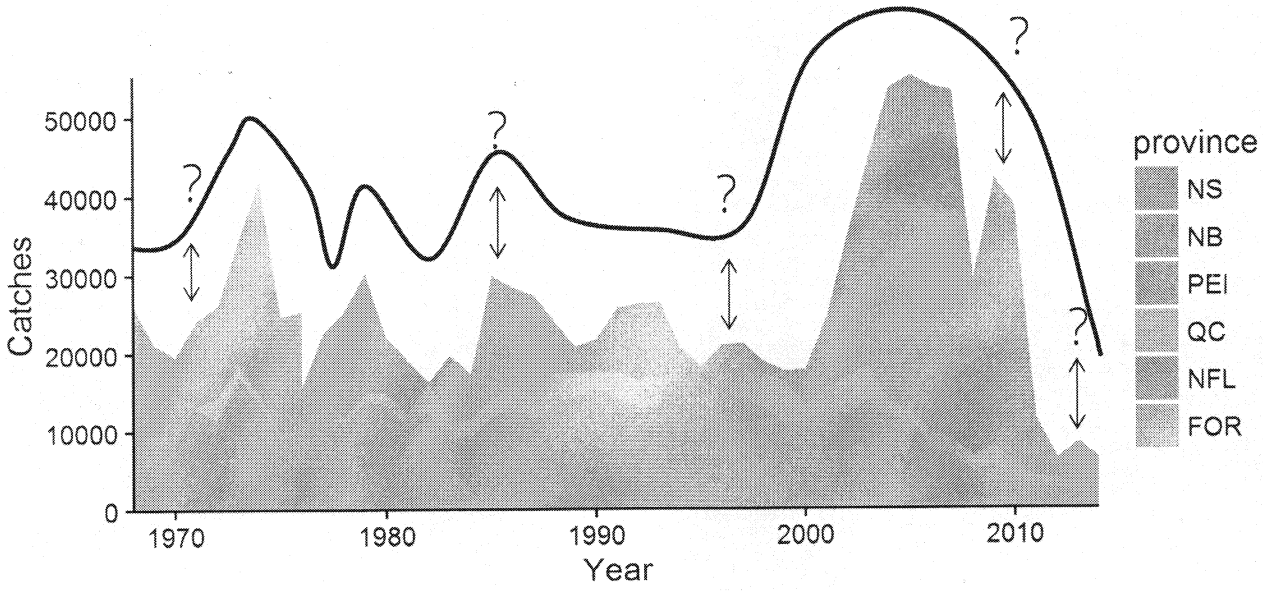
TOTAL

2477t (N=430)

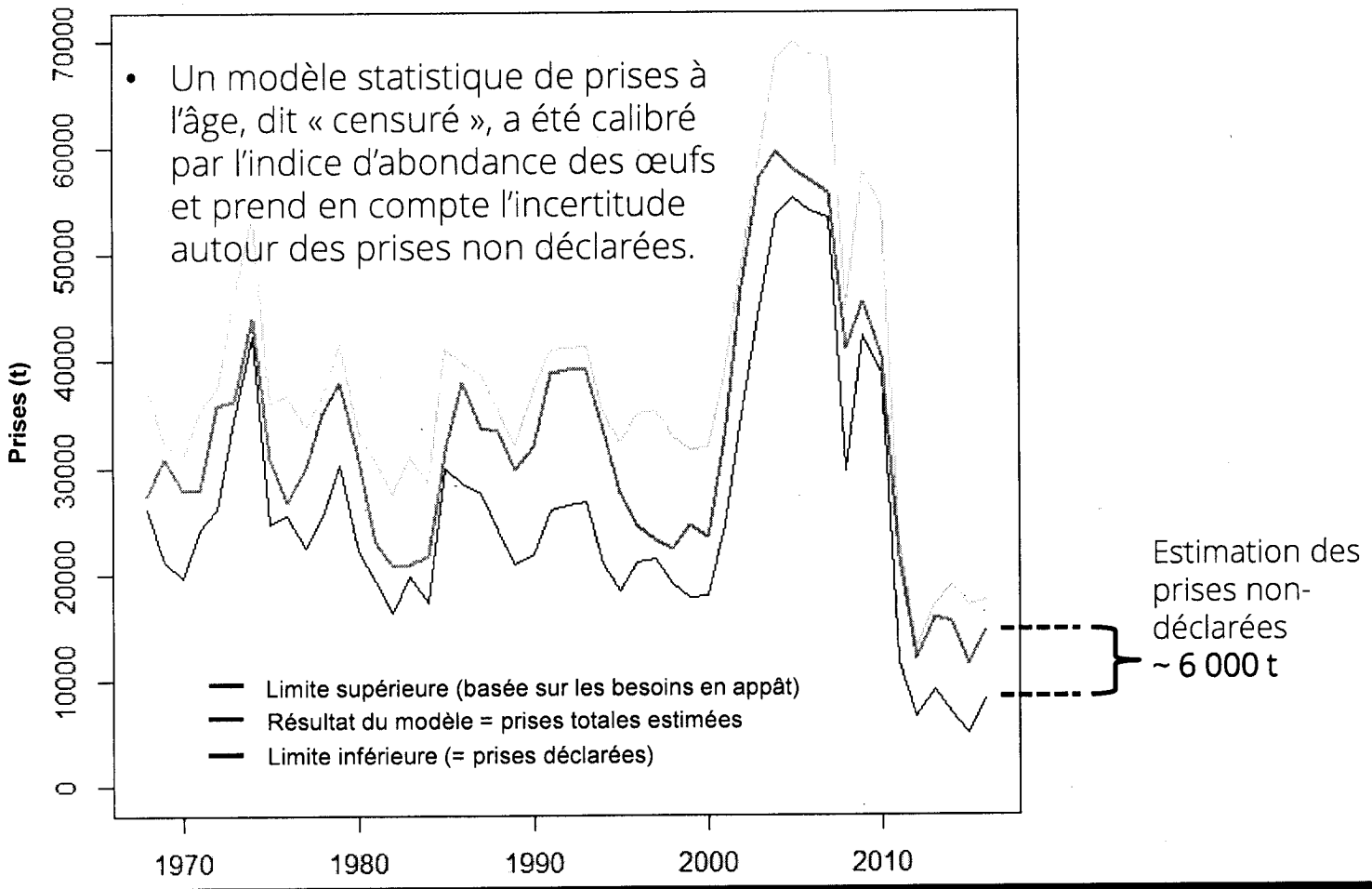


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Approche « Censurée »

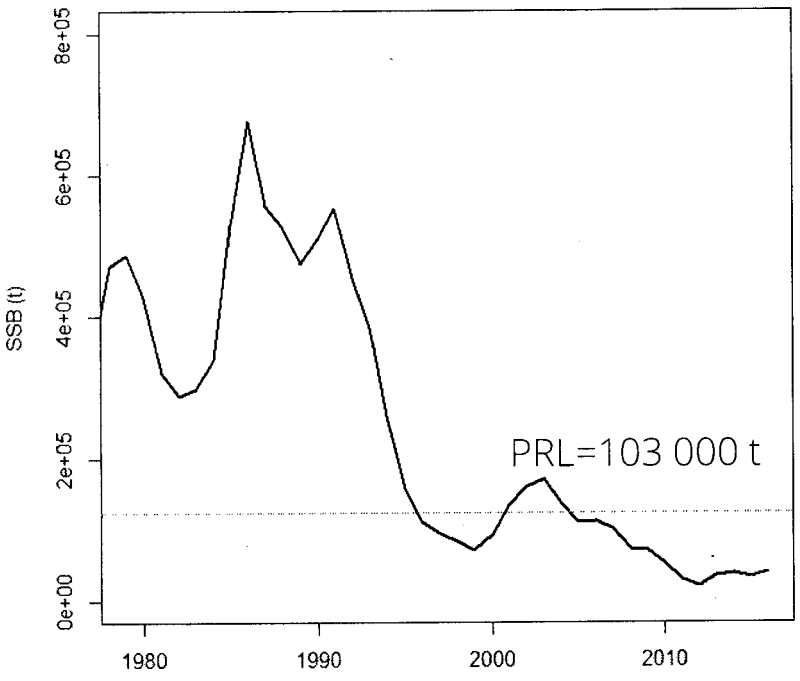


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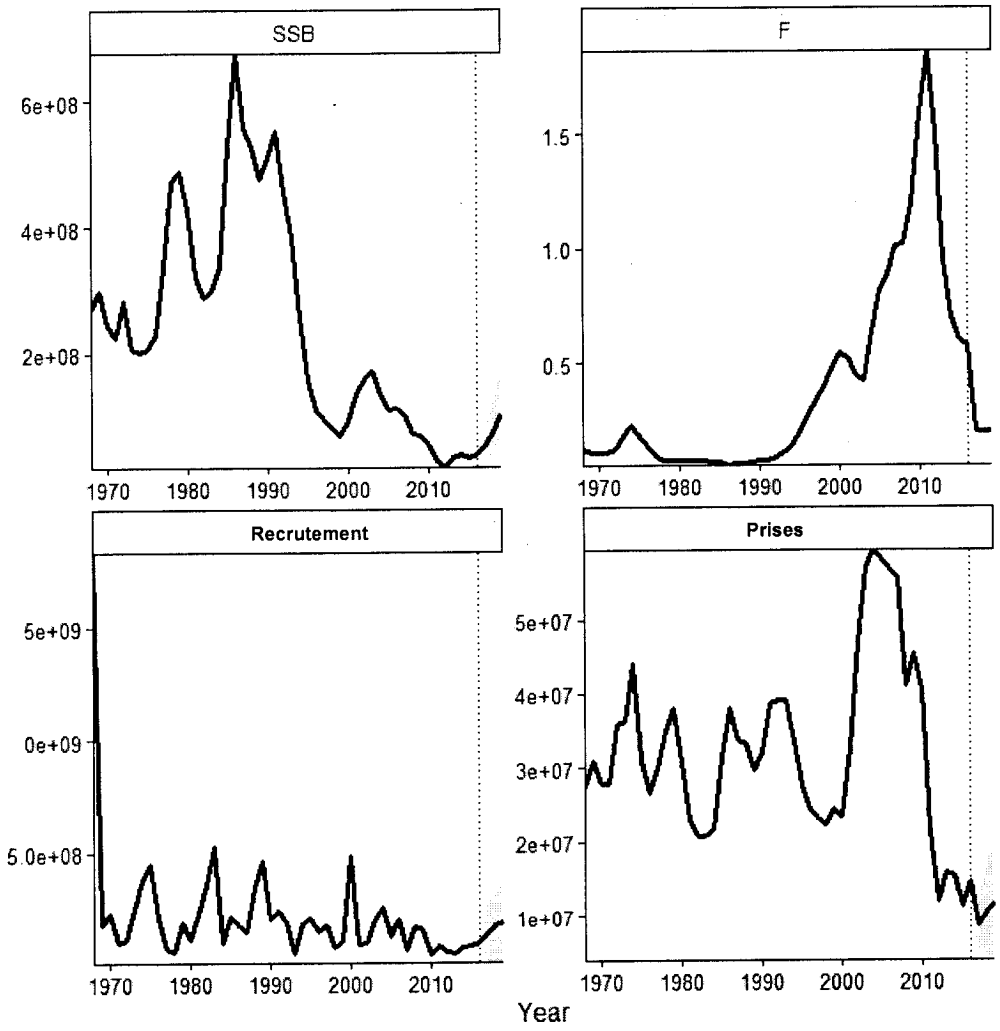
État de la ressource



- Le nouveau modèle confirme que la biomasse reproductrice du maquereau a décliné suite à des taux d'exploitation élevés et a atteint son minimum historique en 2012 (20 000 t). Selon le modèle, la biomasse en 2016 était de 40 000 t.
- Le Point de Référence Limite (PRL) pour ce stock est basé sur une approximation de $40\%B_{rms}$ à partir de $F_{40\%}$ tel qu'obtenu par une analyse de rendement par recrue. Suivant le modèle censuré, le stock se situe en 2016 à 40% du PRL de 103 000 t.

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- Des projections permettent d'estimer les risques associés à différents scénarios de capture. Étant donné que le stock se situe dans la zone critique, la capture totale (déclarées + non-déclarées) devrait être suffisamment faible pour favoriser le rétablissement.



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Prises déclarées + non-déclarées (t)		2017		2018		2019		
2017	2018	SSB (t)	Taux exp.	SSB (t)	Taux exp.	SSB (t)	prob. >2016	prob. >PRL
0	0	48,283	0.00	77,164	0.00	113,886	0.95	0.56
4,000	4,000	48,283	0.08	72,175	0.06	103,378	0.93	0.50
6,000	6,000	48,283	0.13	68,503	0.09	96,927	0.92	0.46
8,000	8,000	48,283	0.17	64,910	0.12	90,889	0.89	0.42
10,000	10,000	48,283	0.21	62,762	0.16	85,686	0.87	0.40
12,000	12,000	48,283	0.25	59,466	0.21	77,143	0.84	0.34
14,000	14,000	48,283	0.29	56,858	0.24	72,189	0.81	0.30
16,000	16,000	48,283	0.33	54,018	0.29	66,158	0.77	0.26
18,000	18,000	48,283	0.38	50,928	0.36	57,113	0.70	0.20
20,000	20,000	48,283	0.42	47,502	0.42	51,348	0.64	0.17
24,000	24,000	48,283	0.50	41,704	0.59	35,728	0.44	0.09
30,000	30,000	48,283	0.62	33,053	0.90	17,199	0.16	0.02

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s.19(1)

Patterson, Pauline

De: [redacted]
Envoyé: April-04-17 4:58 PM
À: Lester, Brian
Cc: Rivierre, Antoine; Rowsell, Andrew; Morin, Mathieu; [redacted]
Objet: advisory committee for mackerel

Mr. Lester,

At the Lower North Shore Fishermen's Association and as per most participants at the mackerel advisory committee taking place on March 30th, 2017, we are supporting a TAC of 20,000 tons of mackerel for the 2017 coming season with a committee for a yearly review.

Thank you for your understanding and thanks again for allowing us to listen to the meeting by phone.

[redacted]

Pages 2056 to / à 2057
are duplicates of
sont des duplicatas des
pages 135 to / à 136

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Waters, Christa

From: [redacted]
Sent: April-04-17 7:43 PM
To: Waters, Christa
Subject: RE: Mackerel question
Attachments: Recommendations to Atlantic Mackerel Advisory Committee Meeting.pdf

Sure! Here is the position that we read (I also submitted it to Brian). Essentially we are looking for a rollover of 8000 tones but with the unaccounted catches accounted for!

Let me know if you have any other questions.

From: Waters, Christa [mailto:Christa.Waters@dfo-mpo.gc.ca]
Sent: April-04-17 9:12 AM
To: [redacted]
Subject: Mackerel question

Hello [redacted],
Hope all is well. I was wondering if you could confirm for me what the EAC (and WWF?) TAC recommendation was? It's just for my benefit, I wrote down two different things in my notes.
Appreciate it,
Christa

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Apr 4/17th Christe Waters

Mackerel → NHQ writes BN, Regional input.
→ by end of next week 1st draft.
→ announcement planned May 1st
→ usually our fishery is open by now (trap + GN) but haven't released LCs b/c no mgt measures decided
→ no more MARMAC scheduled.
→ once decision is reached, build LCs, check CP.
→ may need to update bait monitoring doc (monthly summary)
→ Only regional no limit # entries / logbooks on GN/HL licences. (may be in NHQ memo or a regionally drafted memo)

Herring → May 16th AC meeting
→ Roger already indicated 50,000 t TAC
→ rebuilding plan → published 2013.
→ has not rebuilt stock but age-structure has improved
→ fishery open-year round Oct 15 – Oct 14
→ interim 25,000 t.
→ final decision at the table.
→ small fish → exploitation is increasing.
∴ CTP asked for docs + did review
↳ don't trust the numbers.
→ need USR (MSC req't so they need
→ framework March 2018 (data inputs Dec 17)

Marine plants / marine worms / urchins. – role not clear
↳ regs amendment req'd for logbooks.

[redacted] Office
DFO

002059

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Marentette, Julie

From: Krohn, Martha
Sent: April-05-17 3:14 PM
To: Marentette, Julie
Subject: RE: Mackerel Science briefing material

Hi Julie,
Can you set up a time for the two of us to think about this and I will set something up for us with Jean. (anytime after tomorrow noon)
Thanks so much,
Martha

From: Chin, Melanie
Sent: April-05-17 3:12 PM
To: Krohn, Martha; Landry, Jean
Cc: McPherson, Arran; Marentette, Julie; Simon, Patrice (Ottawa); McCallum, Barry; White, Andrea
Subject: RE: Mackerel Science briefing material

ESD,

The briefing time as described below has not yet been scheduled.

Separate from that, Trevor having reviewed the materials you provided, asked if ESD would put some thought to what the recommendations re: TAC would be. He will likely put the question to you during the briefing or before that time early next week.

thanks

From: Swerdfager, Trevor
Sent: 2017–April-04 9:43 PM
To: Krohn, Martha
Cc: McPherson, Arran; Landry, Jean; Marentette, Julie; Chin, Melanie
Subject: RE: Mackerel Science briefing material

Thanks for this. ADMO will be in touch to line up briefing time on this

Trevor Swerdfager
Fisheries and Oceans Canada / Pêches et Océans Canada
Senior Assistant Deputy Minister -
Ecosystems and Oceans Science and Oceans Protection Plan
Sous-ministre adjoint principal -
Sciences des écosystèmes et des océans et Plan de protection des océans
trevor.swerdfager@dfo-mpo.gc.ca
613-949-4919

From: Krohn, Martha
Sent: Tuesday, March 28, 2017 2:43 PM
To: Swerdfager, Trevor <Trevor.Swerdfager@dfo-mpo.gc.ca>
Cc: McPherson, Arran <Arran.McPherson@dfo-mpo.gc.ca>; Landry, Jean <Jean.Landry@dfo-mpo.gc.ca>; Marentette, Julie <Julie.Marentette@dfo-mpo.gc.ca>
Subject: Mackerel Science briefing material

Document Released Under the Access to Information Act / Document divulgué en vertu de la Loi sur l'accès à l'information.

Hello Trevor,

Please find attached Mackerel briefing material

1) Mackerel 101
2) Mackerel one pager fish profile
3) Briefing deck
4) Projection table for risks associated with different catch levels
5) Approved bullets from the March 2017 stock assessment (which you have already received from Quebec)

These have all been reviewed by Jean and Arran.

We would be happy to provide you a briefing, especially given complexities with the TAC options and the issue of unreported catches.
The advisory meeting (AMAC) will take place Thursday in Halifax, and the TAC discussions will presumably follow shortly. (EFM is aiming for a final decision end of April).

Thanks you so much to Julie for producing this material!

Martha

Martha Krohn

National Manager, Fish Population Science
Fisheries and Oceans Canada / Government of Canada
martha.krohn@dfo-mpo.gc.ca/ **Tel: 613-998-4234 new number**

New Office # 12E245

Sciences des populations halieutiques
Pêches et Océans Canada / Gouvernement du Canada
martha.krohn@dfo-mpo.gc.ca / Tél. : 613-998-4234

Martha Krohn
Government of Canada Gouvernement du Canada

Canada

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Castonguay, Martin

De: de Lafontaine, Yves
Envoyé: 5 avril 2017 12:42
À: Castonguay, Martin; Doniol-Valcroze, Thomas; Gilbert, Michel
Cc: Berube, Linda
Objet: TR: Mackerel Science briefing material
Pièces jointes: Atlantic Mackerel Assessment Briefing Deck 170328.ppt; Atlantic Mackerel 101 March 28 2017.docx; Annexe 1 Sommaire maquereau _fra_ang.docx; Converting Mackerel Projections to TACs 170328 final.docx; Atlantic Mackerel Fish Profile 2017-03028 final.docx

Bonjour

J'aimerais que vous soyez disponible pour un prochain appel du SMA sur le maquereau. Je vous fais signe dès que nous avons une heure de rendez-vous.

Yves de Lafontaine

Directeur, Institut Maurice Lamontagne
Directeur, Direction régionale des Sciences
Pêches et Océans Canada / Gouvernement du Canada
Yves.delafontaine@dfo-mpo.gc.ca Tél. : 418-775-0555 / tél. cell. : [redacted]

Director, Maurice Lamontagne Institute
Director, Sciences regional directorate
Fisheries and Oceans Canada / Government of Canada
Yves.delafontaine@dfo-mpo.gc.ca Tel : 418-775-0555 / Cel. : [redacted]

Ma langue, une question de respect
My language, a matter of respect

De : Chin, Melanie
Envoyé : 5 avril 2017 12:32
À : de Lafontaine, Yves <Yves.deLafontaine@dfo-mpo.gc.ca>; Landry, Jean <Jean.Landry@dfo-mpo.gc.ca>; Krohn, Martha <Martha.Krohn@dfo-mpo.gc.ca>
Cc : Simon, Patrice (Ottawa) <Patrice.Simon@dfo-mpo.gc.ca>; White, Andrea <Andrea.White@dfo-mpo.gc.ca>; Boudreau, Carol-Ann <Carol-Ann.Boudreau@dfo-mpo.gc.ca>
Objet : FW: Mackerel Science briefing material

Hi,

Trevor has asked for a meeting/teleconf with Yves, Martha *et al* to discuss these materials – it will be scheduled soon. Please forward the invitation to others as you wish.

Thanks.

Document Released Under the Access to Information Act / Document divulgué en vertu de la Loi sur l'accès à l'information.

From: Krohn, Martha
Sent: Tuesday, March 28, 2017 2:43 PM
To: Swerdfager, Trevor <Trevor.Swerdfager@dfo-mpo.gc.ca>
Cc: McPherson, Arran <Arran.McPherson@dfo-mpo.gc.ca>; Landry, Jean <Jean.Landry@dfo-mpo.gc.ca>; Marentette, Julie <Julie.Marentette@dfo-mpo.gc.ca>
Subject: Mackerel Science briefing material

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The advisory meeting (AMAC) will take place Thursday in Halifax, and the TAC discussions will presumably follow shortly. (EFM is aiming for a final decision end of April).

Thanks you so much to Julie for producing this material!

Martha

Martha Krohn

National Manager, Fish Population Science
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martha.krohn@dfo-mpo.gc.ca/ **Tel: 613-998-4234 new number**

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Martha Krohn
Government of Canada Gouvernement du Canada

Can

Pages 2064 to / à 2068

are duplicates of

sont des duplicatas des

pages 2165 to / à 2169

Pages 2069 to / à 2072

are duplicates of

sont des duplicatas des

pages 2189 to / à 2192

AMAC Review w EFM 13W131 Date April 6/17

What are the ideas on the table for rec/bait etc?
- monitorg, ↓ uncertainty or ↓ demand

What abt TAC?

→ Meeting cancelled

MK- meet w EFM + Regional Scient
- still need to meet w JL on AMA
- may want to call in on Monday

Apr 2017

May 2017

Page

002073

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Marentette, Julie

From: Krohn, Martha
Sent: April-06-17 3:37 PM
To: Landry, Jean
Cc: Boudreau, Carol-Ann; Marentette, Julie
Subject: RE: meeting with QC on mackerel TAC

OK We will meet after Monday's call with Brian. Did you want to meet with EFM as well at the same time? (after the call?)

From: Landry, Jean
Sent: April-06-17 3:34 PM
To: Krohn, Martha
Cc: Boudreau, Carol-Ann; Marentette, Julie
Subject: RE: meeting with QC on mackerel TAC

Yves will be part of the briefing with us and Trevor. I suggest that we collect first the views of EFM and see from there.

Jean Landry

Director , Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Jean.Landry@dfo-mpo.gc.ca / Tel: 613-993-0029

Directeur, Sciences halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Jean.Landry@dfo-mpo.gc.ca / Tél. : 613-993-0029

Government of Canada Gouvernement du Canada

Canada

De : Krohn, Martha
Envoyé : 6 avril 2017 15:31
À : Landry, Jean <Jean.Landry@dfo-mpo.gc.ca>
Cc : Boudreau, Carol-Ann <Carol-Ann.Boudreau@dfo-mpo.gc.ca>; Marentette, Julie <Julie.Marentette@dfo-mpo.gc.ca>
Objet : meeting with QC on mackerel TAC

Hi Jean,
Did you want to set up a meeting with QC (Yves De La Fontaine) next week to meet on mackerel TAC? Julie has a meeting Monday morning with EFM which I am planning to join.
Thanks,
Martha

Martha Krohn

National Manager, Fish Population Science
Fisheries and Oceans Canada / Government of Canada
martha.krohn@dfo-mpo.gc.ca/ **Tel: 613-998-4234 new number**

Document Released Under the Access to Information Act / Document divulgué en vertu de la Loi sur l'accès à l'information.

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Sciences des populations halieutiques
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martha.krohn@dfo-mpo.gc.ca / Tél. : 613-998-4234

Martha Krohn

Government of Canada / Gouvernement du Canada

Canada

No information has been removed or severed from this page

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s.19(1)

Cormier, Mélanie

De: [redacted]
Envoyé: 6 avril 2017 18:51
À: Lester, Brian
Cc: Rivierre, Antoine; Mallet, Pierre; Hardy, Magalie; Sylvie
Objet: MACEKEAL

After attending the advisory committee last week here are some recommendations that we wood like to see put in place by the MINISTER that the(hail in and log book) be mandatory for the upcoming season and that he ask his REGIONAL director to work whit the CNP to verify the landing we add ask for a ingres of the minimum size to go from 263 mm to 270 mm by doing so it will help preserve the stock but this only works if you enforce it ass a part of the small working group we are going to ask to put in place a minimum size for the gills nets and ask for a study to try to find a stander hook that will can use help eliminate the bigach of small fish thank you

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Cormier, Mélanie

De: Lester, Brian
Envoyé: 6 avril 2017 14:43
À: Rivierre, Antoine
Cc: Cawthray, Jenness
Objet: RE: AMAC and Rebuilding plan working group_Mackerel

Hello Antoine: I asked for AMAC members to volunteer to be members of a Rebuilding Plan Working Group that would meet (by conference call and perhaps 1 or 2 face to face meetings over the next two years) in order to develop a Rebuilding Plan to bring forward to AMAC for adoption/approval at the 2019 AMAC meeting. There was significant interest in participation and I think we have upwards of a dozen names at this point (combination of >65', <65' and the Ecology Action Centre).

Over the coming months(s) I will draft some Terms of Reference for the WG and have an initial call with WG members to review the TORs and establish some Objectives and a timeline.

I would see the regional Pelagics Advisors as members of the WG as well as Science.

Let me know if you have any other questions.

From: Rivierre, Antoine
Sent: 2017–April-03 4:18 PM
To: Lester, Brian
Cc: Cawthray, Jenness
Subject: AMAC and Rebuilding plan working group_Mackerel

Hello Brian
Since I had to leave before the end of our meeting last week, I wanted to validate with you if there were any elements that were mentioned at the end and that I missed.
So, since I'm still the new in the fill, can you tell me what will be the next steps ?

Regarding the rebuilding plan, I also wanted to validate with you how you saw the working of the working group (participant, schedule, meeting etc ...). I know that two members of the Quebec industry have volunteered to sit on this committee. For my part, it is a matter that interests me and on which I would like to be able to contribute, if that is possible.

I am waiting for some news from you.

Thank you

Antoine Rivierre

Conseiller principal p. i.,
Espèces pélagiques, mammifères marins
Gestion de la ressource et des affaires autochtones / Pêches et Océans Canada / Gouvernement du Canada
Antoine.rivierre@dfo-mpo.gc.ca / Tél. : 418.640.2636

Senior Advisor a. i.,

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Pelagic species, Marine Mammals
Resource Management and Aboriginal Affairs / Fisheries and Oceans Canada / Government of Canada
Antoine.rivierre@dfo-mpo.gc.ca / Tél. : 418.640.2636

Government of Canada Gouvernement du Canada

Canada

No information has been removed or severed from this page

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Syed, Hamza

Subject: 2017 SRS CSAS RES2017/029 QC Atlantic mackerel (Van Beveren)
Due Date: April-06-17

Status: Completed
Percent Complete: 100%
Date Completed: April-07-17

Total Work: 0 hours
Actual Work: 0 hours

Owner: CSAS / SCCS (DFO/MPO)



MECTS-3752601....

http://wwwdev.ncr.dfo-mpo.ca/csas-sccs/Publications/ResDocs-DocRech/2017/2017_029-eng.html
http://wwwdev.ncr.dfo-mpo.ca/csas-sccs/Publications/ResDocs-DocRech/2017/2017_029-fra.html

Le 7 avril 2017 : affiché –ir



PRO2017/013 QC maquereau bleu;...

Le 7 avril 2017 : une changement demandé par l'auteur, reconvertis, renvoyé, l'approbation reçu et PDF prête pour publier - LF



RE: For your Final review - RS...



RE: For your Final review - RS...

Le 5 avril 2017 : Charley a fait des changements et j'ai envoyé l'approbation du PDF - LF



RE: question avant le courriel...



For your Final review - RSVP b...

Le 3 avril 2017: envoyé la question au sujet de l'annexe 1 à Charley – LF



question avant le courriel de ...

Le 30 mars 2017 : commentaires – ir
HTML-eng : looks good, thanks
HTML-fra : looks good, thanks
PDF-eng:

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- The document is in English so Québec Region should be Quebec Region and Avril 2017 should read April 2017 done
- P. 1+ border missing in page header done

Le 29 mars 2017 : revue de la mise en page par Laura – LF

- Mois de publication changé à « Avril » **should be April since the document is in English done**
- Moved the page number from above the line in the footer to under the line **– OK thanks**
- Change the link on pg 2 under "methods" to a link to English content? https://www.google.com/intl/eng_ca/forms/about/ **yes, but only if it's available.** It is available, this is the link to the English content
- Changed style of figure 7 caption to "figure – caption" **ok, thanks**
- ?ideally Appendix 1 is not a figure but instead text? Pg 11-15 **– yes, this should be text**
- Without increasing the total number of pages: moved comment 37 to be all on pg 18; moved 197 to be all on pg 24; moved comment 217 to be all on pg 25; - **ok, thanks**

Le 24 mars 2017 : date de publication prévue pour le 6 avril - ir

Le 17 mars 2017: numéro attribué, document reçu, sauvegardé dans EKME – gl


RE: Demande de numéro et prod...


RE: Demande de numéro et prod...

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Syed, Hamza

From: Cyr, Charley
Sent: April-07-17 8:11 AM
To: Ferris, Laura
Subject: RE: For your Final review - RSVP by April 11 – RES2017/029

Laura,

J'ai fait un saut de paragraphe après Appendix 2, donc ça devrait fonctionner si vous le convertissez à nouveau.

Charley Cyr
Directeur
DAISS
(418) 775-0825
Charley.Cyr@dfo-mpo.gc.ca

De : Ferris, Laura
Envoyé : 6 avril 2017 16:58
À : van Beveren, Elisabeth
Cc : Cyr, Charley
Objet : RE: For your Final review - RSVP by April 11 – RES2017/029

Thank you Elisabeth!
I apologize for the slow response.
I will have a look tomorrow morning and try to fix and resend to you so that you can see if I've resolved the floating "2".
Sorry again for the delay and thanks for your review!
Laura

Laura Ferris

Web and Publication Assistant, Canadian Science Advisory Secretariat
Fisheries and Oceans Canada / Government of Canada
Laura.Ferris@dfo-mpo.gc.ca / Tel: 613-990-0659

Assistante web et publication, Secrétariat canadien de consultation scientifique
Pêches et Océans Canada / Gouvernement du Canada
Laura.Ferris@dfo-mpo.gc.ca / Tél. : 613-990-0659

Government of Canada / Gouvernement du Canada

Canada

From: van Beveren, Elisabeth
Sent: April-05-17 3:48 PM
To: Ferris, Laura
Subject: RE: For your Final review - RSVP by April 11 – RES2017/029

Hello,

Document Released Under the Access to Information Act / Document divulgué en vertu de la Loi sur l'accès à l'information

Everything looks fine, but there's still one detail I would like to change. On page 3, there is a "2." between the Figure 1 legend and plot, which belongs to sentence just above the figure ("the final comments given by participants are provided in Appendix"). Would it please be possible to shift the figure slightly down, so that this "2." does not float anymore?

Thank you,
Elisabeth

From: Ferris, Laura
Sent: April-05-17 3:27 PM
To: van Beveren, Elisabeth
Cc: Cyr, Charley
Subject: For your Final review - RSVP by April 11 – RES2017/029

Hi Elisabeth van Beveren,
Thank you for submitting Research Document 2017/029 on Atlantic mackerel. It will be posted following your approval by April 11 (within the next 5 business days). If you need more time, please let us know.

The links below lead you to the CSAS development website where you will find the Abstract/Résumé in HTML and the Research Document converted to PDF (Adobe Acrobat) for your final review. Your approval can be communicated by replying to this e-mail.

English: http://wwwdev.ncr.dfo-mpo.ca/csas-sccs/Publications/ResDocs-DocRech/2017/2017_029-eng.html
French : http://wwwdev.ncr.dfo-mpo.ca/csas-sccs/Publications/ResDocs-DocRech/2017/2017_029-fra.html

Please ensure that all parts of the text, tables, figures, and scientific equations are in place. Elements that should be checked include headings, authors' names, scientific equations, image placement, pagination, boldface and italics. Minor changes, such as correcting typographic errors, may still be made at this stage. However any major changes to text, particularly the advice or conclusions require re-approval as stated in the CSAS Policy on the Review and Approval of Documents. Major changes may also include re-phrasing text, changing a number, or any other factual change.

The final MS Word version is on the National Shared Drive at : \\svmonkenclu01\NATSHARE01\NATSHAREDDATA/csas-sccs/Publications\Submissions\QC\PDF-proof Please contact your Coordinator to access the file. Please note that your edits must be made in track changes mode.

Also note that the following edits were made to the document:

- Changed Appendix 1 from figures to text
- Changed the link on pg 2 under "methods" to a link to English content https://www.google.com/intl/eng_ca/forms/about/

Please let me know if you have any questions,
Laura

Laura Ferris

Web and Publication Assistant, Canadian Science Advisory Secretariat
Fisheries and Oceans Canada / Government of Canada
Laura.Ferris@dfo-mpo.gc.ca / Tel: 613-990-0659

Assistante web et publication, Secrétariat canadien de consultation scientifique
Pêches et Océans Canada / Gouvernement du Canada
Laura.Ferris@dfo-mpo.gc.ca / Tél. : 613-990-0659

Document Released Under the Access to Information Act / Document divulgué en vertu de la Loi sur l'accès à l'information.

Syed, Hamza

From: Ferris, Laura
Sent: April-07-17 9:04 AM
To: van Beveren, Elisabeth
Cc: Cyr, Charley
Subject: RE: For your Final review - RSVP by April 11 – RES2017/029

Hi Elisabeth!
I believe we have fixed the floating 2. We have reconverted so you can have a look at the same link. Sometimes you need to do a hard refresh (ctrl-F5) when opening the link for a second time to see changes, because it is the same link as before.

English: http://wwwdev.ncr.dfo-mpo.ca/csas-sccs/Publications/ResDocs-DocRech/2017/2017_029-eng.html
French : http://wwwdev.ncr.dfo-mpo.ca/csas-sccs/Publications/ResDocs-DocRech/2017/2017_029-fra.html

Let us know what you think!
Thank you!
Laura

Laura Ferris

Web and Publication Assistant, Canadian Science Advisory Secretariat
Fisheries and Oceans Canada / Government of Canada
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Assistante web et publication, Secrétariat canadien de consultation scientifique
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To: van Beveren, Elisabeth
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Assistante web et publication, Secrétariat canadien de consultation scientifique
Pêches et Océans Canada / Gouvernement du Canada
Laura.Ferris@dfo-mpo.gc.ca / Tél. : 613-990-0659

Government of Canada Gouvernement du Canada

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Subject: For your Final review - RSVP by April 11 – RES2017/029

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Please let me know if you have any questions,
Laura

Laura Ferris

Web and Publication Assistant, Canadian Science Advisory Secretariat
Fisheries and Oceans Canada / Government of Canada
Laura.Ferris@dfo-mpo.gc.ca / Tel: 613-990-0659

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Laura.Ferris@dfo-mpo.gc.ca / Tél. : 613-990-0659

Government of Canada / Gouvernement du Canada

Canada

Document Released Under the Access to Information Act / Document divulgué en vertu de la Loi sur l'accès à l'information.

Syed, Hamza

From: Cyr, Charley
Sent: April-05-17 10:37 AM
To: Ferris, Laura
Subject: RE: question avant le courriel de l'approbation RES2017/029

Salut Laura,

J'ai mis le texte de l'appendix 1 en format tableau et je l'ai sauvé sur le répertoire. Vérifie si c'est OK.

Merci

Charley Cyr
Directeur
DAISS
(418) 775-0825
Charley.Cyr@dfo-mpo.gc.ca

De : Ferris, Laura
Envoyé : 4 avril 2017 16:02
À : Cyr, Charley
Objet : RE: question avant le courriel de l'approbation RES2017/029

Oui, exactement. Je m'excuse que j'ai utilisé une terme anglais – et j'espère que c'était ne terme correcte ;)

Nous sommes une équipe alors si tu as besoin d'aide, n'hésitez pas à me demander! Je demande des questions et demande pour des changements à toi parce que c'est toi qui sait plus de moi au sujet de ces documents.

Laura Ferris

Web and Publication Assistant, Canadian Science Advisory Secretariat
Fisheries and Oceans Canada / Government of Canada
Laura.Ferris@dfo-mpo.gc.ca / Tel: 613-990-0659

Assistante web et publication, Secrétariat canadien de consultation scientifique
Pêches et Océans Canada / Gouvernement du Canada
Laura.Ferris@dfo-mpo.gc.ca / Tél. : 613-990-0659

Government of Canada / Gouvernement du Canada

Canada

From: Cyr, Charley
Sent: April-04-17 3:59 PM
To: Ferris, Laura
Subject: RE: question avant le courriel de l'approbation RES2017/029

Salut Laura,

Document Released Under the Access to Information Act / Document divulgué en vertu de la Loi sur l'accès à l'information.

Qu'est-ce qu'un layout table? Est-ce qu'on ne fait que formater le texte dans un tableau à 2 colonnes?

Charley Cyr
Directeur
DAISS
(418) 775-0825
Charley.Cyr@dfo-mpo.gc.ca

De : Ferris, Laura
Envoyé : 3 avril 2017 15:36
À : Cyr, Charley
Objet : RE: question avant le courriel de l'approbation RES2017/029

Oh d'accord - bien il devrait être la texte alors un "layout table" est mieux qu'un figure. Deux colonnes dans chaque page pour que la texte anglais soit à la gauche et la texte français soit à la droite?

Isabelle a dit que la texte peut être dans l'alt texte mais il est moins idéale.

Laura Ferris

Web and Publication Assistant, Canadian Science Advisory Secretariat
Fisheries and Oceans Canada / Government of Canada
Laura.Ferris@dfo-mpo.gc.ca / Tel: 613-990-0659

Assistante web et publication, Secrétariat canadien de consultation scientifique
Pêches et Océans Canada / Gouvernement du Canada
Laura.Ferris@dfo-mpo.gc.ca / Tél. : 613-990-0659

Government of Canada / Gouvernement du Canada

Canada

From: Cyr, Charley
Sent: April-03-17 3:00 PM
To: Ferris, Laura
Subject: RE: question avant le courriel de l'approbation RES2017/029

Salut Laura,

C'est moi qui ai mis le texte en image parce que ça me semblait plus simple. Comme le sondage est dans les deux langues, j'ai mis le texte en image afin d'éviter les problèmes de langues. Aussi, comme c'est sur deux colonnes, c'était aussi plus compliqué. Je n'ai pas d'autres suggestions. Si vous en avez, vous pouvez me le dire...

Charley Cyr
Directeur
DAISS
(418) 775-0825
Charley.Cyr@dfo-mpo.gc.ca

De : Ferris, Laura
Envoyé : 3 avril 2017 14:51
À : Cyr, Charley
Objet : question avant le courriel de l'approbation RES2017/029

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Bonjour Charley!
J'ai une question avant d'envoyer l'approbation PDF a l'auteur (Van Beveren, Elisabeth). Au sujet de la document de recherche 2017/029 « Results of an informal survey of Canadian Atlantic mackerel commercial, recreational and bait fishers » par Van Beveren, E.

Idéalement Appendix 1 n'est pas des figures mais de la texte. Comment devrions-nous procéder?

Une copie de la version en format Word a été déposée sur le disque national partagé à l'adresse suivante :
\\svmonkenclu01\NATSHARE01\NATSHAREDDATA/csas-sccs/Publications\Submissions\QC\PDF-proof

Merci!
Laura

Laura Ferris

Web and Publication Assistant, Canadian Science Advisory Secretariat
Fisheries and Oceans Canada / Government of Canada
Laura.Ferris@dfo-mpo.gc.ca / Tel: 613-990-0659

Assistante web et publication, Secrétariat canadien de consultation scientifique
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Laura.Ferris@dfo-mpo.gc.ca / Tél. : 613-990-0659

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Pages 2089 to / à 2092

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Syed, Hamza

From: Cyr, Charley
Sent: March-17-17 11:10 AM
To: Ladouceur, Geneviève
Subject: RE: Demande de numéro et produit de la rencontre : révision du cadre d'évaluation du maquereau 18-20 janv 2017
Attachments: RES_2017_029 Mackerel Online_survey_final.docx

Bonjour,

Voici le document de recherche 2017/029. Il a été approuvé.

Bonne journée!

Charley Cyr
Directeur
DAISS
(418) 775-0825
Charley.Cyr@dfo-mpo.gc.ca

De : Ladouceur, Geneviève
Envoyé : 17 mars 2017 10:12
À : Cyr, Charley
Cc : Ferris, Laura
Objet : RE: Demande de numéro et produit de la rencontre : révision du cadre d'évaluation du maquereau 18-20 janv 2017

Bonjour Charley,

Voici les deux numéros :

Résultats d'une enquête informelle auprès de pêcheurs canadiens de maquereaux Atlantique à des fins commerciales, récréatives et appât (RES2017/029)

Compte rendu de l'examen régional par des pairs portant sur la révision du cadre d'évaluation du maquereau bleu des sous-régions 3 et 4; 18-20 janvier 2017 (PRO2017/013)

Genevieve

From: Ferris, Laura
Sent: March-16-17 2:18 PM
To: Ladouceur, Geneviève
Cc: CSAS / SCCS (DFO/MPO)
Subject: FW: Demande de numéro et produit de la rencontre : révision du cadre d'évaluation du maquereau 18-20 janv 2017

Deux demandes de numéro en plus, de Charley! Il est occupé!
Merci!
Laura

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Laura Ferris

Web and Publication Assistant, Canadian Science Advisory Secretariat
Fisheries and Oceans Canada / Government of Canada
Laura.Ferris@dfo-mpo.gc.ca / Tel: 613-990-0659

Assistante web et publication, Secrétariat canadien de consultation scientifique
Pêches et Océans Canada / Gouvernement du Canada
Laura.Ferris@dfo-mpo.gc.ca / Tél. : 613-990-0659

Government of Canada / Gouvernement du Canada

Canada

From: Cyr, Charley
Sent: March-16-17 1:30 PM
To: CSAS / SCCS (DFO/MPO)
Subject: Demande de numéro et produit de la rencontre : révision du cadre d'évaluation du maquereau 18-20 janv 2017

Bonjour,

Vous trouvez ci-joint le sommaire des produits de la rencontre du 18 au 20 janvier 2017 sur la révision du cadre d'évaluation du maquereau.

Je joins également une demande de numéro pour un document de recherche et le compte rendu de cette rencontre.

Charley Cyr

Directeur, Avis, Informations et soutien scientifiques
Direction régionale des Sciences
Pêches et Océans Canada / Gouvernement du Canada
charley.cyr@dfo-mpo.gc.ca / Tél.: 418-775-0825

Director, Scientific Advices, Informations and Support
Science Regional Branch
Fisheries and Oceans Canada / Government of Canada
Charley.cyr@dfo-mpo.gc.ca / Tel.: 418-775-0825

Ma langue, une question de respect. My language, a matter of respect.

Document Released Under the Access to Information Act / Document divulgué en vertu de la Loi sur l'accès à l'information.

Research Document 2017/029

Results of an informal survey of Canadian Atlantic mackerel commercial, recreational and bait fishers

By Van Beveren, E., Castonguay, M., Doniol-Valcroze, T., and Duplisea, D.

Abstract

For several years researchers and stakeholders have highlighted that Canadian catches of Atlantic mackerel (*Scomber scombrus*) are underestimated, but the extent of the problem is still largely unknown. We launched an informal online survey targeting all Canadian Atlantic mackerel fishers in order to obtain a rough estimate of the proportion of catch which is undeclared (bait, discards and recreational catches). In addition, we asked if fishers observed more small mackerel in 2016 compared to previous years as evidence of an important year class in 2015. Four hundred seventy-six mackerel fishers responded from Québec and the Atlantic Provinces and from bait, recreational and commercial sectors. We found that more than half of all mackerel was used as bait, primarily for the lobster fishery, but also as bait for 11 other species, most importantly bluefin tuna (*Thunnus thynnus*), snow crab (*Chionoecetes opilio*) and Atlantic halibut (*Hippoglossus hippoglossus*). Recreational fishing, generally with rod and line, can also be done semi-professionally with jiggers and gillnets, thus it cannot be considered negligible. Additionally, 1.9% of the catch was discarded, mainly because of undersized fish. As a result of bait use, recreational fishing and discarding, true mackerel catch was about 150% the declared catch, although it is known that this derives from biased sampling. About half of the fishers who responded indicated that small mackerel were plentiful in 2016, indicating that the 2015 year class of mackerel may have been larger than observed in recent years.

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Document de recherche 2017/029

Résultats d'une enquête informelle auprès de pêcheurs canadiens de maquereaux Atlantique à des fins commerciales, récréatives et appât

Par Van Beveren, E., Castonguay, M., Doniol-Valcroze, T., et Duplisea, D.

Résumé

Depuis plusieurs années, les chercheurs et les intervenants ont souligné que les prises canadiennes de maquereaux bleus (*Scomber scombrus*) sont sous-estimées, mais l'étendue du problème est encore inconnue. Nous avons lancé une enquête informelle en ligne à l'intention de tous les pêcheurs canadiens de maquereau afin d'obtenir une estimation approximative de la proportion de prises non déclarées (appâts, rejets et prises récréatives). De plus, nous avons demandé si les pêcheurs ont observé une proportion nettement plus importante de petit maquereau, soutenant l'idée qu'une nouvelle cohorte arrive. L'étude a porté sur 476 répondants des 4 provinces de l'Atlantique et du Québec, qui ont pêché le maquereau pour l'appât ou à des fins récréatives ou commerciales. Nous avons constaté que plus de la moitié du maquereau était utilisé comme appât, principalement pour la pêche au homard, mais aussi pour appâter 11 autres espèces; le thon rouge (*Thunnus thynnus*), le crabe des neiges (*Chionoecetes opilio*) et le flétan atlantique (*Hippoglossus hippoglossus*) étaient les plus fréquentes. La pêche récréative, généralement avec la ligne à main, peut également être pratiquée semi professionnellement avec des turluttes et des filets maillants, de sorte qu'elle ne doit pas être négligée. De plus, 1,9 % des captures ont été rejetées, principalement à cause de la petite taille des poissons. En raison de l'utilisation d'appât, de la pêche récréative et des rejets, la capture réelle de maquereau représenterait environ 150 % de la capture déclarée, nombre qui devrait cependant être pondéré pour équilibrer l'échantillonnage

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biaisé. En outre, environ la moitié des pêcheurs ont indiqué que le petit maquereau était abondant en 2016, ce qui indique que la classe d'âge de 2015 aurait pu être plus importante que les classes d'âge observées dans les années récentes.

Document PDF complet

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Page 2099
is a duplicate of
est un duplicata de la
page 2106

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Syed, Hamza

Subject: 2017 SRS CSAS PRO2017/013 QC maquereau bleu; 18 janvier 2017 (Dubé)
Due Date: April-06-17

Status: Completed
Percent Complete: 100%
Date Completed: April-07-17

Total Work: 0 hours
Actual Work: 0 hours

Owner: CSAS / SCCS (DFO/MPO)




MECTS-3754148....MECTS-3754147....

http://wwwdev.ncr.dfo-mpo.ca/csas-sccs/Publications/Pro-Cr/2017/2017_013-eng.html
http://wwwdev.ncr.dfo-mpo.ca/csas-sccs/Publications/Pro-Cr/2017/2017_013-fra.html

Le 7 avril 2017 : published –ir



PRO2017/013 QC maquereau bleu;...

Le 6 avril 2017 : PDFs sont prêtes à publier - LF

Le 5 avril 2017 : l'approbation reçu le 4 avril et les PDFs sont prêtes à finaliser - LF



RE: Révision finale - RSVP d'i...

Le 3 avril 2017 : l'approbation du PDF envoyé - LF



Révision finale - RSVP d'ici l...

Le 30 mars 2017 :

HTML-fra :

- Nbsp added in dates and names of chair and rapporteur
- Defined acronym for MPO as it is not defined in the text
- Defined acronym for NOAA and added a language tag because NOAA has no official translation: <abbr **lang="en"** title="National Oceanic and Atmospheric Administration">NOAA</abbr>

HTML-eng:

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- Nbsp added in dates and names of chair and rapporteur
- Defined acronym for DFO

PDF-eng:

- Cover page header, R majuscule dans Quebec **R**egion done
- Bottom of p. 6, although not a header, I think "Day 3 – Thursday, January 20, 2017" is meant to go at the top of p. 7. done
- Citations, correct spacing for hanging indent. Already is 0.63cm
- P. ii, correct citation in French: MPO. 2017. Compte rendu de l'examen régional par des pairs portant sur la révision du cadre d'évaluation du maquereau bleu des sous-régions 3 et 4; du 18 au 20 janvier 2017. Secr. can. de consult. sci. du MP**O**, Compte rendu 2017/013. done

PDF-fra:

- Are the URL's blue on your screen for the ones on the colophon page? Shows up in black for me on the colophon page and purplish-blue on p. 9 changed colophon page URLs to hyperlink style and pg 9 was already hyperlink style
- Citations, correct spacing for hanging indent. Already is 0.63cm

Le 29 mars 2017 : revue de la mise en page par Laura – LF

English

- Changed publication month to April – **OK, thanks**
- Put a period at the end of the last sentence in the Summary (eng) – **OK, thanks**
- Moved orphan heading of « participation » from pg 10 to pg 11– **OK, thanks**
- Created the HTML page for the DFO2006 reference http://www.dfo-mpo.gc.ca/csas-sccs/Publications/SAR-AS/2006/2006_023-eng.htm
- removed underline font from "Day 3 – Friday..." (pg 13) – **OK, thanks**
- !no table headers for agenda Appendix 3 – **add headers, Time, Topic, and Presenter, then confirm with Charley. The other option would be to remove the information from the table and make a tabbed list instead.**

French

- Changed publication month to Avril – **OK, merci**
- Gave mackerel a capital M in english correct citation "Framework for Atlantic Mackerel" – **OK, merci**
- Moved "References" to its own page without impacting overall page count – **OK, merci**
- Created the HTML page for the MPO2006 reference http://www.dfo-mpo.gc.ca/csas-sccs/Publications/SAR-AS/2006/2006_023-fra.htm – **OK, merci**
- removed underline font from "Jour 3 – vendredi..." (pg 13) – **still underlined in the PDF**
- !no table headers for agenda Appendix 3 – **add headers, Heure, Sujet, Présentateur**

Le 23 mars 2017 : date de publication prévue pour le 6 avril - ir
Le 21 mars 2017 : document reçu – gl



RE: Demande de numéro et prod...

Le 17 mars 2017: numéro attribué – gl



RE: Demande de numéro et prod...

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Proceedings 2017/013

Proceedings of the Regional Peer Review of the Assessment Framework for Atlantic Mackerel in subareas 3 and 4; January 18-20, 2017

Chair: Dominique Gascon
Rapporteur: Sonia Dubé

Summary

This document contains the Proceedings of the Regional Peer Review of the Assessment Framework for Atlantic Mackerel in subareas 3 and 4. This meeting, which was held from January 18 to 20, 2017 at the Maurice Lamontagne Institute in Mont-Joli, gathered about 30 participants from DFO (Fisheries and Oceans Canada) Science and Fisheries Management, as well as industry representatives, academics, provincial representatives and representatives from the National Oceanic and Atmospheric Administration (NOAA). These proceedings provide an overview of the key points of the presentations and discussions along with recommendations and conclusions presented during the review.

Complete PDF document

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Compte rendu 2017/013

Compte rendu de l'examen régional par des pairs portant sur la révision du cadre d'évaluation du maquereau bleu des sous-régions 3 et 4; du 18 au 20 janvier 2017

Président : Dominique Gascon
Rapporteure : Sonia Dubé

Sommaire

Ce document renferme le compte rendu de l'examen régional par des pairs portant sur la révision du cadre d'évaluation du maquereau bleu des sous-régions 3 et 4. Cette rencontre, qui s'est déroulée du 18 au 20 janvier 2017 à l'Institut Maurice-Lamontagne à Mont-Joli, a réuni plus d'une trentaine de participants issus des sciences et de la gestion du MPO (Pêches et Océans Canada) de même que des représentants de l'industrie, du milieu universitaire, des représentants provinciaux et du NOAA (National Oceanic and Atmospheric Administration). Ce compte rendu contient l'essentiel des présentations et des discussions qui ont eu lieu pendant la réunion et fait état des recommandations et conclusions émises au moment de la revue.

Document PDF complet

Offre active de produire le document dans les deux langues officielles :

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Date de modification :
2017-03-30

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Syed, Hamza

From: Rondeau, Isabelle
Sent: April-07-17 11:50 AM
To: Cyr, Charley
Cc: van Beveren, Elisabeth
Subject: PRO2017/013 QC maquereau bleu; 18 janvier 2017 (Dubé) & RES2017/029 QC Atlantic mackerel (Van Beveren)

Re-bonjour Charley,

Le compte rendu pour le maquerau est aussi affiché, ainsi que le document de recherche de Van Beveren. Donc le seul document de recherche qui reste est celui de Thomas Doniol-Volcroze (#9259).
Comme d'habitude, les versions finales Word sont aussi sur le répertoire partagé pour des dossiers.

Du 18 au 20 janvier 2017 Révision du cadre d'évaluation pour le maquereau bleu des sous-régions 3-4 Mont-Joli, QC	Examen par les pairs régional(e) QUÉBEC	Gascon, Dominique Président(e) Cyr, Charley Coordonnateur(trice) du CAS 418-775-0825	Publication prévue : un autre document de recherc Cadre de référence Document de recherche 2017/013 - Résultats d'un informelle auprès de pêcheurs à des fins commerc et appât Compte rendu 2017/013
January 18-20, 2017 Review of the Assessment Framework for Atlantic mackerel in subareas 3 and 4 Mont-Joli, QC	Regional Peer Review QUEBEC	Gascon, Dominique Chair Cyr, Charley CSA Coordinator 418-775-0825	Expected Publication: one more Research Docum Terms of Reference Research Document 2017/029 - Results of an info recreational and bait fishers Proceedings 2017/013

A+

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Isabelle Rondeau

Web and Publications Administrator, Canadian Science Advisory Secretariat
Fisheries and Oceans Canada / Government of Canada
Isabelle.Rondeau@dfo-mpo.gc.ca / Tel: 613-990-0293

Administratrice de site Web et de publications, Secrétariat canadien de consultation scientifique
Pêches et Océans Canada / Gouvernement du Canada
Isabelle.Rondeau@dfo-mpo.gc.ca / Tél. : 613-990-0293

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Canada

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Syed, Hamza

From: Cyr, Charley
Sent: April-04-17 3:29 PM
To: Ferris, Laura
Subject: RE: Révision finale - RSVP d'ici le 7 avril – PRO2017/013

Bonjour Laura,

Ça me va. OK pour publication.

Charley Cyr
Directeur
DAISS
(418) 775-0825
Charley.Cyr@dfo-mpo.gc.ca

De : Ferris, Laura
Envoyé : 3 avril 2017 11:49
À : Cyr, Charley
Objet : Révision finale - RSVP d'ici le 7 avril – PRO2017/013

Bonjour Charley,
Merci de nous avoir soumis le compte rendu 2017/013 de maquereau bleu. Le document sera affiché suivant votre approbation d'ici le 7 avril (dans les 5 prochains jours). Si vous avez besoin de plus de temps, s'il vous plaît contactez-nous.

SVP notez que nous avons ajouté des titres pour l'ordre du jour « Annexe 3 » parce que c'est un tableau mais si tu n'aimes pas, on peut utiliser un « tabbed list ».

Les liens ci-après vous mèneront au site de développement du SCCS, où vous trouverez le texte et le document convertis en format PDF (Adobe Acrobat) pour votre révision finale. Votre approbation doit être transmise en répondant à ce message.

Français : http://wwwdev.ncr.dfo-mpo.ca/csas-sccs/Publications/Pro-Cr/2017/2017_013-fra.html
Anglais : http://wwwdev.ncr.dfo-mpo.ca/csas-sccs/Publications/Pro-Cr/2017/2017_013-eng.html

Une copie de la version finale en format Word a été déposée sur le disque national partagé à l'adresse suivante : \\svmonkenclu01\NATSHARE01\NATSHAREDDATA/csas-sccs/Publications\Submissions\QC\PDF-proof Notez aussi que vos changements doivent être inclus en mode de révisions.

Notez aussi que les changements suivants ont été faits au document:
Anglais:

- Cover page header, R majuscule dans Quebec **R**egion
- Bottom of p. 6, although not a header, "Day 3 – Thursday, January 20, 2017" moved to the top of p. 7.
- P. ii, correct citation in French: MPO. 2017. Compte rendu de l'examen régional par des pairs portant sur la révision du cadre d'évaluation du maquereau bleu des sous-régions 3 et 4; du 18 au 20 janvier 2017. Secr. can. de consult. sci. du MP**O**, Compte rendu 2017/013.
- Put a period at the end of the last sentence in the Summary (eng)
- Moved orphan heading of « participation » from pg 10 to pg 11

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- Created the HTML page for the DFO2006 reference http://www.dfo-mpo.gc.ca/csas-sccs/Publications/SAR-AS/2006/2006_023-eng.htm
- removed underline font from "Day 3 – Friday..." (pg 13)

Français:

- changed colophon page URLs to hyperlink style
- Gave mackerel a capital M in english correct citation "Framework for Atlantic Mackerel"
- Moved "References" to its own page without impacting overall page count
- Created the HTML page for the MPO2006 reference http://www.dfo-mpo.gc.ca/csas-sccs/Publications/SAR-AS/2006/2006_023-fra.htm
- removed underline font from "Jour 3 – vendredi..." (pg 13)

N'hésitez pas à me contacter si vous avez des questions,
Laura

Laura Ferris

Web and Publication Assistant, Canadian Science Advisory Secretariat
Fisheries and Oceans Canada / Government of Canada
Laura.Ferris@dfo-mpo.gc.ca / Tel: 613-990-0659

Assistante web et publication, Secrétariat canadien de consultation scientifique
Pêches et Océans Canada / Gouvernement du Canada
Laura.Ferris@dfo-mpo.gc.ca / Tél. : 613-990-0659

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Pages 2110 to / à 2111

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Syed, Hamza

From: Cyr, Charley
Sent: March-21-17 8:43 AM
To: Ladouceur, Geneviève
Subject: RE: Demande de numéro et produit de la rencontre : révision du cadre d'évaluation du maquereau 18-20 janv 2017
Attachments: PRO2017_013_Cadre Maquereau-fra_FINAL.docx; PRO2017_013_Mackerel Framework Assessment_en.docx

Bonjour Geneviève,

Le compte rendu 2017/013 a été approuvé. Le voici pour publication.

Merci

Charley Cyr
Directeur
DAISS
(418) 775-0825
Charley.Cyr@dfo-mpo.gc.ca

De : Ladouceur, Geneviève
Envoyé : 17 mars 2017 10:12
À : Cyr, Charley
Cc : Ferris, Laura
Objet : RE: Demande de numéro et produit de la rencontre : révision du cadre d'évaluation du maquereau 18-20 janv 2017

Bonjour Charley,

Voici les deux numéros :

Résultats d'une enquête informelle auprès de pêcheurs canadiens de maquereaux Atlantique à des fins commerciales, récréatives et appât (RES2017/029)

Compte rendu de l'examen régional par des pairs portant sur la révision du cadre d'évaluation du maquereau bleu des sous-régions 3 et 4; 18-20 janvier 2017 (PRO2017/013)

Genevieve

From: Ferris, Laura
Sent: March-16-17 2:18 PM
To: Ladouceur, Geneviève
Cc: CSAS / SCCS (DFO/MPO)
Subject: FW: Demande de numéro et produit de la rencontre : révision du cadre d'évaluation du maquereau 18-20 janv 2017

Deux demandes de numéro en plus, de Charley! Il est occupé!

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Merci!
Laura

Laura Ferris

Web and Publication Assistant, Canadian Science Advisory Secretariat
Fisheries and Oceans Canada / Government of Canada
Laura.Ferris@dfo-mpo.gc.ca / Tel: 613-990-0659

Assistante web et publication, Secrétariat canadien de consultation scientifique
Pêches et Océans Canada / Gouvernement du Canada
Laura.Ferris@dfo-mpo.gc.ca / Tél. : 613-990-0659

Government of Canada / Gouvernement du Canada

Canada

From: Cyr, Charley
Sent: March-16-17 1:30 PM
To: CSAS / SCCS (DFO/MPO)
Subject: Demande de numéro et produit de la rencontre : révision du cadre d'évaluation du maquereau 18-20 janv 2017

Bonjour,

Vous trouvez ci-joint le sommaire des produits de la rencontre du 18 au 20 janvier 2017 sur la révision du cadre d'évaluation du maquereau.

Je joins également une demande de numéro pour un document de recherche et le compte rendu de cette rencontre.

Charley Cyr

Directeur, Avis, Informations et soutien scientifiques
Direction régionale des Sciences
Pêches et Océans Canada / Gouvernement du Canada
charley.cyr@dfo-mpo.gc.ca / Tél.: 418-775-0825

Director, Scientific Advices, Informations and Support
Science Regional Branch
Fisheries and Oceans Canada / Government of Canada
Charley.cyr@dfo-mpo.gc.ca / Tel.: 418-775-0825

Ma langue, une question de respect / My language, a matter of respect

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pages 2093 to / à 2094

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Patterson, Pauline

De: Rivierre, Antoine
Envoyé: April-07-17 3:40 PM
À: Gros-Louis, Denis; Morin, Bernard; Boudreau, Suzie
Cc: Castonguay, Martin; Doniol-Valcroze, Thomas
Objet: Position de la région du Québec:: TAC Maquereau 2017
Pièces jointes: note_TAC_2017.pdf

Importance: Haute

Denis
Tu trouveras en pièce jointe ma note concernant le choix du TAC de maquereau pour 2017.
Un mémo sera préparé par Ottawa pour une recommandation du ministre dans les prochains jours.

Je pense qu'un niveau de capture équivalent à celui de 2016 (environ 14 000 tonnes au total) représente une position prudente et cohérente avec l'avis des sciences.
Cela correspondrait à un TAC compris entre 8000 et 10 000 tonnes.

Antoine Rivierre

Agent régional principal,
Espèces pélagiques, mammifères marins
Gestion de la ressource et des affaires autochtones / Pêches et Océans Canada / Gouvernement du Canada
Antoine.rivierre@dfo-mpo.gc.ca / Tél. : 418.640.2636

Regional senior Advisor,
Pelagic species, Marine Mammals
Resource Management and Aboriginal Affairs / Fisheries and Oceans Canada / Government of Canada
Antoine.rivierre@dfo-mpo.gc.ca / Tél. : 418.640.2636

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Pêches et Océans Canada
Direction régionale
Région du Québec

Fisheries and Oceans Canada
Regional Office
Québec Region

Classif. sécurité/Security

NOTE DE SERVICE

Le 7 avril 2017

À: TO: Denis Gros-Louis
Directeur de la Gestion de la ressource

Votre réf./Your ref.

Notre réf./Our ref.

DE: FROM: Antoine Rivierre
Agent régional

OBJET: SUBJECT: Position de la région du Québec : Détermination du TAC pour le stock de maquereau bleu des sous-zones 3 et 4 de l'OPANO

Mise en Contexte

Le 30 mars dernier lors du comité consultatif sur le maquereau de l'Atlantique (AMAC), les sciences ont présenté les résultats de la dernière évaluation du stock réalisée avec les données de 2013, 2014, 2015 et 2016 (préliminaires).

En 2014, le stock était évalué à son niveau le plus bas historique avec des débarquements déclarés de 4 143 tonnes en 2015.

En 2016, le TAC de 8 000 tonnes aurait été atteint. De ce nombre, environ la moitié des débarquements ont été réalisés sur la côte Est de Terre-Neuve (3K) où il n'y avait pourtant pas eu de débarquement au cours de 4 années précédentes. À ce chiffre, les sciences estiment qu'environ 6 000 tonnes supplémentaires ont été capturées, mais non déclarées pour un niveau de capture total estimé à 14 000 tonnes.

C'était la première fois depuis le début de la pêche que le TAC est atteint et qu'on procédait à la fermeture de la pêche.

Les indicateurs biologiques (relevés des œufs, structure d'âge) sont stables à de faibles niveaux, mais une légère amélioration est observée depuis 2012.

Selon le modèle statistique de prises à l'âge, la biomasse reproductrice est estimée à 40 000 tonnes. Ce chiffre correspond à 40 % du Point limite de référence (PRL) évalué à 103 000 tonnes.

Étant donné que le stock se situe dans la zone critique, les sciences recommandent que les captures totales (déclarées + non-déclarées) soient suffisamment faibles pour favoriser le rétablissement.

12 scénarios d'exploitation avec les probabilités que la biomasse augmente et la probabilité que le stock sorte de la zone critique sont présentés en annexe.

Détermination du TAC

Lors de la réunion, aucun consensus sur le TAC n'a été trouvé.

Ecology Action Center, sur la base de l'approche de précaution et de la lettre-mandat du ministre réclame un niveau de captures totales qui ne dépasse pas **8 000 tonnes**

L'industrie de Terre-Neuve considère que les scénarios proposés ne représentent pas la réalité et demande un niveau d'exploitation de **36 000 tonnes**. Selon l'industrie et les transformateurs, la pêche est différente à l'extérieur du golfe. Le poisson est plus gros et les sciences ne peuvent pas confirmer hors de tout doute que le poisson capturé sur la côte Est de Terre-Neuve provient uniquement du Golfe.

La majorité des représentants de l'industrie présents demandent un total de capture (Déclarées + non-déclarées) de **20 000 tonnes.** En considérant un même niveau de captures non déclarées, cela correspond à un TAC de 14 000 tonnes soit une augmentation de 42 % par rapport à 2016.

Canada

104, rue Dalhousie, Québec (Québec) G1K 7Y7
Tél.: (418) 648-4158 / Fax: (418) 648-4758

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En passant de 14 000 à 20 000 tonnes, le niveau de capture totale augmenterait quant à lui de 30 %.

Surveillance et conformité de la pêche

Actuellement les régions du sud du Golfe se basent uniquement sur les récépissés d'achat pour faire le suivi des contingents. Historiquement le suivi des débarquements de maquereau n'était pas une priorité et les données étaient généralement comptabilisées vers le mois d'avril de l'année suivante.

Cette manière de procéder est devenue insuffisante et il n'est plus possible de fonctionner avec les règles actuellement en place.

L'industrie se dit prête à travailler avec le MPO pour une implantation totale des journaux de bord dans les régions où il n'y a pas de suivi.

La région du golfe ne sera cependant pas prête à implanter les journaux de bord en 2017 et propose 100 % d'appels d'entrée et 25 % de vérification à quai dès l'année prochaine.

Concernant les journaux de bord électroniques, il y a une certaine ouverture de la part du ministère et des représentants de l'industrie pour travailler à leur implantation à partir de 2018.

Enjeux

- Le niveau d'incertitude relié à l'évaluation scientifique est considéré élevé
  - Incertitude sur le véritable niveau de capture
  - Plusieurs indices de recrutement observés en 2016 par l'industrie n'apparaissent pas dans l'évaluation scientifique
  - Manque d'informations sur l'origine des poissons capturés dans 3K
  - Influence de l'environnement
- L'industrie est préoccupée si le taux de déclaration des débarquements augmente que le TAC soit atteint trop rapidement
- L'atteinte du TAC dépend dans une certaine mesure de la capacité des pêcheurs de 3K à capturer du poisson.



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s.21(1)(b)

Évaluation des scénarios



3. TAC DE 8 000 À 10 000 TONNES (CAPTURES TOTALES : 14 000 TONNES)

AVANTAGES	INCONVÉNIENTS
• La probabilité que le stock augmente avec un total de capture de 14 000 tonnes est évaluée à 81 % • La mise en place de nouvelles mesures de monitoring permettrait de réduire les captures non déclarées et d'augmenter le TAC à environ 10 000 tonnes. • Favorise la reconstruction du stock sur la base d'un taux de recrutement moyen • Ne déroge pas des recommandations des sciences	• Ne permet pas de sortir de la zone critique d'ici 2019 sauf si gros épisode de recrutement • Risque élevé d'atteindre le quota et de fermer la pêche si le poisson se présente en abondance dans 3K comme en 2016 • On peut s'attendre à ce que l'industrie du Québec réagisse négativement à l'absence d'une augmentation de quota

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Recommandation

Il est recommandé que la région du Québec propose à l'administration centrale de maintenir le niveau de capture en 2017 au niveau de 2016 (Scénario 3).

Un niveau de capture total (déclarées et non déclarées) de 14 000 tonnes ne mettrait pas en péril le stock de maquereau et permettrait une augmentation de la biomasse. Associé à la mise en place de nouvelles mesures de suivi des débarquements le TAC de 2017 pourrait être fixé à 10 000 tonnes soit une augmentation de 25% par rapport au niveau de 2016.

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s.19(1)

Waters, Christa

From: Waters, Christa
Sent: April-07-17 9:08 AM
To: [redacted]
Subject: RE: mackeral meeting at delta halifax
Attachments: mackerel_science_AMAC (2).pdf; AMAC_Agenda.doc

From: [redacted]
Sent: April 6, 2017 4:55 AM
To: Waters, Christa
Subject: Fw: mackeral meeting at delta halifax

Good morning christa,

Could you please forward copies of the documents and papers used at the delta Halifax mackerel meeting last week. Please also forward the chairs email.

Thank you,

[redacted]

On Fri, Mar 31, 2017 at 8:29, [redacted] > wrote:

Good morning Christa,

Please forward a copy of the email and attachments that was sent out for yesterday's mackerel meeting and any documents and science information handed out at the meeting.

Thank you.

[redacted]

Pages 2123 to / à 2124
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pages 749 to / à 750

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Waters, Christa

From: Sperry, Chris
Sent: April-07-17 10:25 AM
To: Waters, Christa; Farr, Connie; Muise, Dwayne; McKinnon, Jim; Morash, Paul; Yeaton, Brad
Cc: Somerville, Todd; Bieren, Stacey
Subject: RE: Mackerel licence conditions - Trap net and gillnet/handline

Thanks for the heads up Christa, please also include Brad Yeaton in any future correspondence because of his role with the Mackerel Trap fishery in SMB. We will do our very best to provide you with support. Just a suggestion Christa , it may not hurt to organize a call next week with the C&P Reps so everyone is fully engaged and on track to provide what you require .

Dwayne M and or Brad please ensure our issues here in SWNS are noted and properly collated by Fishery so that they can be forwarded to RM.

I have included the other 2 Area Chiefs for their info.

Chris

From: Waters, Christa
Sent: Friday, April 07, 2017 10:03 AM
To: Farr, Connie; Muise, Dwayne; McKinnon, Jim; Morash, Paul
Cc: Sperry, Chris
Subject: Mackerel licence conditions - Trap net and gillnet/handline

Hello folks,

Just a heads up on the mackerel fishery and issuance of conditions. The Atlantic Mackerel Advisory Committee was head on March 30. The stock continues to be deep in the critical zone and we are working on stricter management measures. This is an Atlantic wide stock and NHQ is the lead. They are currently working on some recommendations for this fishery. This is a process that takes some time and they are aiming to have a decision from the Minister by May first. As you may know, our fishery can already be up and running in some places by then, so I imagine there will be some pressure to get this completed.

We are looking to implement more monitoring requirements in this fishery. This will require a change in licence conditions. I can draft the new conditions once I have an idea on what the Minister will sign off on. All to say is that the time for C&P to review the conditions will likely be very short. I will do my best to get them to you as early as possible. In the mean time, if there are any changes that you see from last years conditions, please let me know. I can do those now.

Licensing – sorry if you will get a ton on calls looking for your conditions.

Please let me know if you have any questions.

Christa

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s.19(1)

Mackerel TAC Call - EFM

Date April 10, 2017

135027

MAR-14 000

Gulf Pierre - 20,000 OK for Gulf

QC - Antoine - 20,000 too high → (14,000)

Erin - NL - not sure yet (20,000)

[redacted] fillet [redacted] (industry)
+ Someone else - meeting someone on mill - then BL FISH-NL not yet a recog. grp

- no spring herring fishery - harvesters choice

- if not recog 6,000 t

- Pierre - hails + dockside monitoring (Gulf)
- QC / Antoine - no changes this year
- NL - no changes expected

Brian - e-logs can be brought forward to Minister (possibly 2018)
- cp what collected for herring (w Science)
- we need to decide on monitoring - bail: gear, times

Erin - Can't vary anything on rec fishery in NL
- Antoine: asked abt implementation - can't put a limit on rec
- Brian - no bag limit but season? Pierre brought up tourism concerns

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May 2017

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Date

Pierre? - Mar will put handline on bait condition?
- Force reporty as bait, not rec
Brian - at least then get #5
- no push in Gulf to do handlines?
Pierre? - we can re-issue bait licences in handlines

Brian - so if comm fishery is shut down, next yr, bait licenses remain valid?
Antoine - I don't know, last yr we had new conditions, this year maybe something
- but may not have big handline role in QC
Brian - if we set aside a certain amt for undeclared, that's one thing, but how to improve reporting
- hailing likely not gonna work for bait
- MAR approach could work, could be challenged (ie if you don't report, you don't get a licence the next yr)

Pierre Gulf - we will use 137 t as bait estimate for 90% of logs
- condition will be that they have to submit log
Antoine - if you don't fish in yr 1 we don't give them yr 2 automatically
Gulf - we can't do that
- still licence condition to report

Brian - all seem comfortable w bait stays open after comm closes

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Date

Krista - notg further but could add handline (MAR) - also could do HL or gill net but not both

Brian - what abt transfers
Krista - I think freeze on new transfer

Piere - we need Rebuildg Plan
Brian - new IFMP by April 2018
Piere - need gear in there

Brian - not exploratory >65 zones?
Erin - talked to Ray, none are exploratory anymore
Brian - need to be consistent
Krista - could be part of IFMP
Brian - ok need to be defined in that way

→ Consensus ~ 20,000t all in (14,000t)
→ Why is 6,000t not accepted
→ Summary of improvements made to rec catch

MAR	GULF	QC	NL
bad card → handline no report → no licence	- report by end of licence	- no bag limit - no automatic licence if no use year prior	- no Δ to rec

- general: e-logs for 2018

May 2017

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- we can't get info unless requested from Bryce - no more purchase slips
- getting away from →
-
- hails may be way to go (25% dockside monitor)
→ Gulf, less than 1000 t will not be captured
- 4-5,000 t likely unreported
- force them to report better - reduce unknown
- rec license maybe 2018 / not certain
- Gulf doesn't want to add handlines

- 2,000 lbs a day for bait
- rec currently unlimited

- fish movement Gulf → Mar → US in winter (Nov-Apr)
- US catch ~ 1,000 t, then 5,000 t.
- could be more spawn in Labrador

- TR
- bar seine - block off bay
-

- could also recommend in-season review if fish are in 3K
- US catch never until now taken into account

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Summary of Mackerel EFM call Date April 10/17

Regions have different proposals and limitations

NL 20,000 t Rec rules cannot be changed.

MAR 14,000 t · possibly put handline in as bait condition to force reporting. If don't report, no licence next yr.

GULF 20,000 t Licence condition to report (~90% compliance) (13% bait estimate) · also handlines in bait licences

QC 14,000 t . If licence unused in yr 1, not guaranteed for yr 2

Options for going forward:
- e-logs (phone app)
- hails? (25% dockside monitoring)
- rec limits in far future? currently unlimited

Estimate 4 to 5,000 t is <u>undeclared</u>

Rebuilding Plan - specify gear

May 2017

2

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s.21(1)(b)

Marentette, Julie

From: Krohn, Martha
Sent: April-10-17 3:56 PM
To: Marentette, Julie
Subject: RE: QC input on Mackerel TAC

Great that you had a conversation with him. [redacted]

From: Marentette, Julie
Sent: April-10-17 3:44 PM
To: Krohn, Martha
Subject: QC input on Mackerel TAC

Hi Martha,

I spoke with Thomas and he was inclined to be OK with anything so long as it was > 50% growth; he doesn't see any reason to go below status quo (i.e. 14,000 t) since the stock is showing signs of growth at this level. [redacted]

Best regards,

Julie Marentette, Ph.D.

Science Advisor, Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Julie.Marentette@dfo-mpo.gc.ca /Tel: 613-943-2098

Conseillère scientifique, Sciences des populations halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Julie.Marentette@dfo-mpo.gc.ca /Tél: 613-943-2098

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Cormier, Mélanie

De: Waters, Christa
Envoyé: 10 avril 2017 12:27
À: Rivierre, Antoine

Hello Antoine,

I am with you on the TAC. I am attempting to write some bullets that hopefully NHQ will use in the Briefing note.

Approximately how many bait licences are issued from your Region annually? We could certainly take ours out of automatic renewals, but that would have to be for 2018.

Christa

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Waters, Christa

From: Waters, Christa
Sent: April-10-17 4:04 PM
To: Berthier, Jacinta
Subject: RE: Mackerel - Can we meet?

Good. See you in the AM.
C

From: Berthier, Jacinta
Sent: April 10, 2017 2:01 PM
To: Docherty, Verna; Waters, Christa
Subject: RE: Mackerel - Can we meet?

I suggest you draft up a summary of the recommended regional changes you quickly flagged last week. We may need a BN for decision by the RD to document actions we will take in support of our conservative TAC recommendation, so good to keep that in the back of your mind as you develop a summary, which could serve as the summary box of the briefing note if you want to think of it in those terms.

If we cannot connect with Doug this afternoon, then first thing in the AM works as we have a standing 8:45 Am update we can dedicate to mackerel.

Let me know if this works.
Thanks!
JB

Jacinta Berthier

Director, Resource and Aboriginal Fisheries Management
Fisheries and Oceans Canada | Government of Canada
Jacinta.Berthier@dfo-mpo.gc.ca |Tel: 902 426-7681 | Cel: [redacted]

Directrice Gestion des ressources et pêches autochtones
Pêches et Océans Canada | Gouvernement du Canada
Jacinta.Berthier@dfo-mpo.gc.ca | Tél. : 902 426-7681 | Tél. cell. : [redacted]

If you have received this communication by mistake, please notify the sender immediately and delete the communication without printing, copying or forwarding it. Thank you.

Si vous avez reçu cette communication par erreur, veuillez en aviser l'expéditeur immédiatement et la supprimer sans l'imprimer, la copier, ou la faire suivre. Merci.

From: Docherty, Verna
Sent: Monday, April 10, 2017 1:22 PM
To: Waters, Christa <Christa.Waters@dfo-mpo.gc.ca>; Berthier, Jacinta <Jacinta.Berthier@dfo-mpo.gc.ca>
Subject: Re: Mackerel - Can we meet?

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Certainly you can skip over me because I'm booked for the next couple of days.

Sent from my BlackBerry 10 smartphone on the Bell network.

From: Waters, Christa
Sent: Monday, April 10, 2017 1:19 PM
To: Berthier, Jacinta; Docherty, Verna
Subject: Mackerel - Can we meet?

Hello,

Just got off the call another call on mackerel. We were asked to confirm with our Directors and/or RD's on what TAC level our Region would be willing to support. I have my advice, but what senior management would support should be confirmed (and should this involve the RDG too?). They would like to have this by Wednesday lunch (our next scheduled meeting).

In addition, they would like some conformation on what we are planning regionally on making improvements. I can draft my advice on this up too, but would like some senior management support.

In addition, I would like be able to get the Aboriginal email to send out by Wednesday too.

There is also the MI.

Sorry to be a pain.

So, I have tried to find a meeting time for Verna, Jacinta, Doug and myself, but there is nothing for all four of us. Please let me know when we can talk so that we can move forward. In the meantime I am drafting my advice.

Christa

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Blewett, Catherine

From: Anderson, Kevin
Sent: April-11-17 12:53 PM
To: Blewett, Catherine; Lapointe, Sylvie; Hopkins, Lillian
Subject: Fw: FFAW News Release - FFAW Leadership discuss shrimp cuts, transition to cod with Federal MPs and Fisheries Minister

Fyi.

Sent from my BlackBerry 10 smartphone on the Bell network.

From: Boriel, Michele <Michele.Boriel@dfo-mpo.gc.ca>
Sent: Tuesday, April 11, 2017 2:17 PM
To: XNFL-RMC
Cc: XNFL-Group, All Communications
Subject: FFAW News Release - FFAW Leadership discuss shrimp cuts, transition to cod with Federal MPs and Fisheries Minister

FFAW Leadership discuss shrimp cuts, transition to cod with Federal MPs and Fisheries Minister

April 11, 2017 – For immediate release

ST. JOHN'S – Yesterday, FFAW-Unifor leadership met with the Minister of Fisheries and Oceans, Dominic LeBlanc and Newfoundland and Labrador Members of Parliament to discuss the urgent issues facing the fishery in NL. Steve Crocker, the provincial Minister of Fisheries and Land Resources, also attended the meetings. Discussions focused on the drastic impact of cuts to the northern shrimp quota, declining crab stocks, the transition to groundfish, the mackerel fishery, and the economic crisis facing harvesters in Placentia Bay.

"Minister LeBlanc acknowledged the benefits the inshore fishery provides to coastal communities. He committed to reviewing the implications of recent quota cuts on the future of communities and to working with industry to mitigate the impact on harvesters and plant workers during the transition from shellfish to groundfish," said Keith Sullivan, President of the Fish, Food and Allied Workers (FFAW-Unifor). "Federal leadership will be critical in order to develop a fair, sustainable fishery in Newfoundland and Labrador."

During the meetings FFAW-Unifor representatives highlighted the impact that severe quota cuts, beyond what was recommended by industry, will have on those relying on the shrimp fishery. These cuts, combined with declining crab quotas, will affect thousands of fish harvesters and approximately 5000 plant workers in the province. Minister LeBlanc committed to reviewing how current policies affect FFAW-Unifor members, and demonstrated an understanding of the need for a smooth transition to a groundfish focused fishery.

FFAW-Unifor representatives also discussed the need to support harvesters in Placentia Bay who are facing economic crisis through an income improvement program and increased access to south coast halibut. Minister LeBlanc committed to working on solutions that will address the extreme situation harvesters in this region currently face.

"It's clear that the federal government is committed to taking steps that will support vibrant and sustainable communities in Newfoundland and Labrador. The FFAW will continue to hold our federal officials to account on their commitments to our membership," added Sullivan.

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For media inquiries, please contact:

Courtney Glode
Communications Officer

FFAW-UNIFOR
368 Hamilton Ave., PO Box 10, Stn C
St. John's NL, A1C 5H5

T: 709 576-7276
M: 709 743-4445
E: cglode@ffaw.net
W: www.ffaw.nf.ca

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s.21(1)(b)

Cormier, Mélanie

De: Waters, Christa
Envoyé: 11 avril 2017 10:43
À: Rivierre, Antoine
Objet: RE: Mackerel question #2
Pièces jointes: 2017_Mackerel Regional input_draft_clw.docx; Aboriginal group supp meeting mackerel summary for email.docx

Here are two drafts - there may be changes. One if for my Regional Director to send to NHQ. One is a summary on the Aboriginal meeting that I will send to Brian with a cc to Randy.
C

From: Rivierre, Antoine
Sent: April 10, 2017 2:57 PM
To: Waters, Christa
Subject: RE: Mackerel question #2

My rational

SSB is estimated to 40 000 tonnes (40% of the PRL)
Since 2012, biological indicators (eggs survey, age structure) are stable at a low level (slow increase)
Stock is in the critical zone

A TAC of 20 000 tonnes do not allow the increasing of the stock and is uncoherent with the establishment of a Rebuilding Plan Working Group

With 14 000 tonnes we have 81 % of chance that the stock increase on the basis of average recruitment rate
This scenario does not run counter to science's recommendations.

Antoine

De : Waters, Christa
Envoyé : April-10-17 1:37 PM
À : Rivierre, Antoine
Objet : RE: Mackerel question #2

Thanks!

I am just looking at landings numbers and where we have seen increases in the egg survey. It seems to me that commercial catches around 6-8,000 MT has shown a slight rebuilding in the model estimates (but relatively little when looking at the whole time series) and age structure. I think this is where we need to be for commercial catches (or lower for quicker rebuilding).

Additional the potential incoming recruitment may improve the outlook for next year.

Anyways, I am just drafting some stuff. I will share when completed.

Christa

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From: Rivierre, Antoine
Sent: April 10, 2017 2:31 PM
To: Waters, Christa
Subject: RE: Mackerel question #2

Hello Christa !
I'm happy to learn you are with me on the TAC !! ☺

Regarding bait licences, in 2016, the region has issue 168 conditions (the total number of licence was 941)

- Area 16: 127
- Area 15: 41

In 2016 fishers had to do a request by NOLS to obtain their conditions

Last year we received 101 logbook at the end of the year (60 %)

For the TAC I'm assuming that if we implement new management measures (hail-in, DMS, logbooks) we will be able to reduce the proportion of undeclared fish... So the TAC could be increase to 10 000 tonnes (it's mean a 20% increase compare to 2016)
If you need help for the bullets, do not hesitate !

Antoine

De : Waters, Christa
Envoyé : April-10-17 12:37 PM
À : Rivierre, Antoine
Objet : Mackerel question #2

Hello Antoine,
When you suggest the 14 all in, what do you assume the commercial catch will be? 8? Or more?
Christa

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s.21(1)(b)

The state of the Atlantic Mackerel stock science assessment 2016: Findings indicate that the mackerel spawning biomass has been declining since the mid-2000s reached its lowest recorded level in 2012 and is relatively stable and with a slightly upwards trend since 2012. Other biological indicators (i.e. age of maturity) are relatively stable. A slight improvement in the age structure can be seen since the last assessment, a truncated age structure still exists where the catch focused on 2 and 3 year olds with no 6+ in the catch. The only significant spawning ground is depleted. The development of the PA concluded that Mackerel was in the critical zone. Given the critical situation of the stock, the assessment concluded that the priority is for its reconstruction.

In our analysis / advice to the Minister we should be clear what our objective is. Pretty much all could agree that improvements to stock status are required (and by status, we don't just mean biomass, but the various additional components that make a healthy stock like size distribution, improved spawning - spatial and temporally, etc). In addition, improvements in the undeclared catch from illegal harvesting, bait and recreational removals was advised from science and should be an objective, which will in turn, help to rebuild the stock.

As such, the choice then becomes what options should be in front of the Minister in order to effect a rebuild. We have policies to guide us when making decisions regarding the rebuilding of fish stocks (*A Fisheries Decision-Making Framework Incorporating the Precautionary Approach*; Rebuilding plan guidelines). Therefore, any decision for this stock should make explicit reference to what policy guidance exists.

We should be mindful of the comments made by Aboriginal organizations about the effect commercial harvest may have on their FSC access. Our Aboriginal Communities have communicated to us that this is an important fishery for them, and that their legal right for mackerel for FSC purposes is being compromised. More formal consultation has been requested (i.e. through the Made in Nova Scotia process, KMK). Moreover, the Ministers Mandate letter and the Departmental plan for 2017-18 require our focus on reconciliation with Indigenous groups. From our 2017-18 Departmental Plan '*Fisheries resources and aquatic habitats have profound social, cultural and economic significance for Indigenous Peoples. Addressing Aboriginal rights, interests and aspirations through fisheries-related economic opportunities and participation in collaborative management are a means to strengthen our nation-to-nation relationships*'. These factors suggest more caution, not less.

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s.21(1)(b)

Although as an existing fishery, mackerel is not covered by thinking on the forage species policy (not that it yet exists), nevertheless the concept of the ecosystem role mackerel plays ought to matter, and would again, serve to make us more cautious, not less.

TAC

A recommendation of a commercial catch over 10,000 mt TAC (~16,000 mt total) is, in effect, a non-constraining commercial limit as the commercial catch hasn't exceeded that number since 2011.

A catch recommendation where the consequences of harvesting at that level in 2017 can demonstrably be shown not to have an impact on stock rebuilding is in order. Our own PA guidance says that "when a stock has reached the Critical Zone, a rebuilding plan must be in place with the aim of having a high probability of the stock growing out of the Critical Zone within a reasonable timeframe". Further definition is provided in the policy to both 'high probability' and 'reasonable timeframe'. So, since 2012, catches of less than ~8,000 have shown to still observe growth in the stock and improve some indicators (albeit slowly) and is therefore a valid option. A commercial harvest at this level (assuming ~<6000 undeclared catch) would give a .81 probability of the stock growing above current levels in 2019, with a .3 probability of bring above the LRP by 2019.

The other TAC options should represent increasingly certain and increasingly rapid stock improvements. Given the state of the stock, there isn't much room we have left ourselves to move. Other options could be included that allow the stock to rebuilding more quickly.

Other Management measures:

It would be reasonable to recommend that there be a temporary freeze on issuance of any new licences for 2017 until a rebuilding plan and/or a new IFMP are developed (Section 11 (4) if the Commercial fisheries licensing policy for Eastern Canada – 1996, offers this as an option when stocks are overfished). Allowing new entrants and the possibility of increased effort is counter to our desire to rebuild the stock.

Our other objective is to make improvements in the amount of undeclared catch from bait and recreational harvesting and any other removals. This amount varies by gear and region. Improvements in each region are required.

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If we are to increase the chances of rebuilding the stock a reduction in mortality from fishing is required. If we have a restrictive TAC this year, more timely information is required in order to monitor activity. This will include more frequent logbook reporting and some level of DMC for some of the fisheries. What requirements that are in pace and what improvements that can be made, vary by Region and fleet.

SUMMARY - Science Advice

- Following its increase in recent years, the length at 50% maturity has remained slightly above the minimum authorized length of 263 mm.
- The age structure in the fishery has contracted considerably since 2000 following the disappearance of fish older than 7 years. However, a slight improvement has been observed since 2013, with an increase of mackerel of ages 5 and 6.
- The abundance index from the egg survey in the southern Gulf reached its lowest level in 2012 (14,568 t), then slowly increased to 52,667 t in 2016. This value remains far below the abundance levels of over 750,000 t observed in the 1980s.
- The Limit Reference Point (LRP) for this stock is a proxy of $40\%B_{msy}$ based on $F_{40\%}$ derived from a yield-per-recruit analysis. According to the censored model, stock abundance in 2016 was about 40% of the 103,000 t LRP.
- Model projections were used to quantify the risks associated with different catch scenarios. Considering that the stock is in the critical zone, total catches (declared + unreported) should be low enough to facilitate recovery.
- It is particularly important to fill gaps in the biological sampling of the commercial catch in some areas, to accelerate compiling of landing statistics and to improve data collection on unreported catches.

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Randy &/or Brian,

The supplementary meeting with Aboriginal groups was well attended on March 28th. I believe this meeting was a step in the right direction as the Government of Canada and DFO is working to advance reconciliation with Indigenous people and to further a nation-to-nation relationship with Indigenous peoples, based on recognition of rights, respect, cooperation and partnership.

The view around the room was that DFO should protect the Aboriginal right to fish for Mackerel for Food Social and Ceremonial (FSC) and commercial purposes (including Mackerel for bait for FSC Lobster fishery). In addition, it was communicated that the cultural importance of mackerel to Aboriginal communities is significant.

Although few specific management measures were suggested, the group advised that a cautious approach to increase the chances of rebuilding the stock was being sought. It was felt that harvesting at the current level on a stock deep in the critical zone was neither appropriate, nor responsible and threatened Aboriginal rights.

This meeting appeared help improve the relationship between the Department and Aboriginal groups. This relationship, specific to Mackerel, has been fractured due to the belief by Aboriginal groups that their input appeared to be ignored at the last AMAC (including letters that were submitted). In fact, not one mitigation measure for the concerns of the Aboriginal groups was offered in 2014, with the exception of an increase in minimal size.

From a Departmental perspective, there is a great deal riding on this meeting and the input we received. This is also true from a Maritimes Region perspective where we have worked hard to develop relationships with our Aboriginal partners over the years. There is an expectation that the advice we received was not only heard, but understood and will be taken into account when it comes to any decisions on this fishery. Moreover, it was stated more than once that the advice the Department received in that meeting needs to be properly weighted. Again, I believe this meeting advanced the Ministers mandate letter and our Departmental Plan (2017-18) which states that as a top priority he will work with the provinces, territories, Indigenous Peoples, and other stakeholders to better co-manage our three oceans and that reconciliation with Indigenous people is a priority for the Department.

Regards,

Someone

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s.21(1)(b)

Cormier, Mélanie

De: Waters, Christa
Envoyé: 11 avril 2017 15:10
À: Lester, Brian; Cawthray, Jenness
Cc: Dunne, Erin; Mallet, Pierre; Gaudet, Mario; Rivierre, Antoine; Doniol-Valcroze, Thomas; Berthier, Jacinta; Wentzell, Doug; Docherty, Verna
Objet: TAC Recommendation

Catégories: Pélagiques

Hello Brian and Jenness,

Summary of science assessment: Findings indicate that the mackerel spawning biomass has been declining since the mid-2000s reached its lowest recorded level in 2012 and is relatively stable and with a slightly upwards trend since 2012. Other biological indicators (i.e. age of maturity) are relatively stable. A slight improvement in the age structure can be seen since the last assessment, however a truncated age structure still exists where the catch focused on 2 and 3 year olds with no 6+ in the catch. The only significant spawning ground is depleted. The development of the PA concluded that Mackerel was in the critical zone. Given the critical situation of the stock, the assessment concluded that the priority is for its reconstruction.

In the advice to the Minister we should be clear what our objective(s) is/are. All could agree that improvements to stock status are required (including biomass, size distribution, improved spawning - spatial and temporally, etc). In addition, improvements to reduce the amount of undeclared catch from bait, recreational and other removals were advised from science.

We have policies to guide us when making decisions regarding the rebuilding of fish stocks (i.e. PA Policy/guidance/ Forage Species). Therefore, any decision for this stock should make explicit reference to what policy guidance exists. These policies suggest more caution, not less.

Our Aboriginal Communities have communicated to us that this is an important fishery for them, and that their legal right for mackerel for FSC purposes is being compromised. More formal consultation has been requested (i.e. through the Made in Nova Scotia process, KMK). Moreover, the Ministers Mandate letter and the Departmental plan for 2017-18 require our focus on reconciliation with Indigenous groups. Again, suggesting more caution, not less.

TAC

Our own PA guidance says that *"when a stock has reached the Critical Zone, a rebuilding plan must be in place with the aim of having a high probability of the stock growing out of the Critical Zone within a reasonable timeframe"*. In addition it states that 'In the critical zone, management actions must promote stock growth and removals from all sources must be kept to the lowest possible level until the stock has cleared this zone. There should be no tolerance for preventable decline.' Therefore, any catch recommendation should be shown not to have an impact on stock rebuilding.

A recommendation of a commercial catch over 10,000 mt TAC (~16,000 mt total) is a non-constraining commercial limit as the commercial catch hasn't exceeded that number since 2011.

Since 2012, commercial catches of less than ~8000 (see table from Jenness) have proven not to hinder rebuilding and allow for minimal improvement in some stock status indicators. A commercial harvest at this level 8000 mt (assuming ~<6000 undeclared catch) would give a .81 probability of the stock growing above current levels in 2019, with a .3 probability of bring above the LRP by 2019. Any other TAC options presented to the Minister should represent increasingly certain and increasingly rapid stock improvements.

Year	TAC	Total

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		Catch
2007	75000	53017
2008	75000	29671
2009	75000	42231
2010	60000	38753
2011	60000	11401
2012	36000	6468
2013	36000	7431 (science # is 8663)
2014	10000	6524
2015	8000	4145

A commercial harvest level at 8000 mt (assuming ~6000 mt undeclared) is supported by both my Director and Regional Director. In addition, a harvest level any higher than this goes against any advice we received from Aboriginal groups.

Other Management measures:

It should be recommend that there be a temporary freeze on issuance of any new licences for 2017 until a rebuilding plan and/or a new IFMP are developed (Section 11 (4) if the Commercial fisheries licensing policy for Eastern Canada – 1996, offers this as an option when stocks are overfished). Allowing new entrants and the possibility of increased effort is counter to our desire to rebuild the stock.

Our other management objective is to make improvements to decrease the amount of undeclared catch from bait and recreational harvesting and any other removals. This amount varies by gear and region. Improvements in each region are required.

Christa Waters
Regional Senior Fisheries Management Advisor
Resource Management | Gestion des Pêches
Maritimes Region | Région des Maritimes
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Dunne, Erin

From: Dunne, Erin
Sent: April-11-17 9:26 AM **s.21(1)(b)**
To: Cawthray, Jenness
Subject: RE: Monitoring measures for mackerel

Jenness, updated bullets

- Bait – the NL region will be implementing mandatory bait logbooks in 2017, mackerel may be taken as bait in 2K3KLPs. *(only change in reporting for NL region)*
- Commercial mackerel fish harvesters operating vessels >35' must complete a commercial fishing log.
- All fixed and mobile gear licence holders fishing commercial mackerel in NAFO Divisions 2J3KLPs and 4R3Pn are subject to a Dockside Monitoring program as outlined in Schedule 32.
- The mobile gear (Purse Seine fleet) is subject to industry funded at-sea observer coverage.

From: Cawthray, Jenness
Sent: April-10-17 12:51 PM
To: Waters, Christa; Mallet, Pierre; Dunne, Erin; Rivierre, Antoine; Gaudet, Mario; Thomas, Tashina
Cc: Lester, Brian
Subject: RE: Monitoring measures for mackerel

Would end of day Wednesday be doable?

From: Waters, Christa
Sent: April-10-17 10:25 AM
To: Cawthray, Jenness; Mallet, Pierre; Dunne, Erin; Rivierre, Antoine; Gaudet, Mario; Thomas, Tashina
Cc: Lester, Brian
Subject: RE: Monitoring measures for mackerel

Jenness,
Good Idea. Can you gives us a deadline pls? I will have to get mine approved at least to the RD level (maybe higher),
Christa

From: Cawthray, Jenness
Sent: April 10, 2017 11:19 AM
To: Mallet, Pierre; Dunne, Erin; Rivierre, Antoine; Gaudet, Mario; Thomas, Tashina; Waters, Christa
Cc: Lester, Brian
Subject: Monitoring measures for mackerel
Importance: High

Hi Everyone,

As I draft the memo it would be useful if you could provide some paragraphs on your monitoring procedures in each respective region, any changes that are planned, timelines and how your expect this to improve data collection in your region. If there are other procedures that can be implemented more long term then please let me know (ie e-logs). I

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appreciate that we have had already had some high level discussion on this during our conference calls; however, it would be useful if these procedure are drafted with more detail.
I will use this either as part of the memo depending on how much information we have on this issue or as an attachment to memo.
Thanks!

Jenness Cawthray
Senior Fisheries and Aquaculture Management Officer |
Agent principal, Gestion des pêches et de l'aquaculture
Fisheries and Oceans | Pêches et océans
200 rue Kent Street - 13S013 Ottawa, ON, K1A 0E6
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Berthier, Jacinta

From: Berthier, Jacinta
Sent: Tuesday, April 11, 2017 2:15 PM
To: Waters, Christa
Cc: Docherty, Verna
Subject: RE: Mackerel input to NHQ

Hi Christa,

I reviewed the summary paragraphs. While I like hearing Stefan in the background, I would prefer to see a few of his points reframed if it is coming from you, and perhaps shorten it if this is going out as an email. Less on the background, more focus on the PA, a TAC that support rebuilding, albeit conservatively, etc.... I can track a few suggested changes if you like, or we can discuss in person. The message is bang on in terms of the need to rebuild the stock, and take necessary steps for doing so.

I support the summary of the supplementary AC meeting with Indigenous groups going forward. I take it this was the Maritimes AC meeting, and not AMAC? Perhaps a note of the number of attendees would be good to add, then send it off with a cc to me and Doug.

Finally, I expect you will reference the management measures discussed that our region will implement this year where possible, and more fully next year.

Cheers,
JB

From: Waters, Christa
Sent: Tuesday, April 11, 2017 10:50 AM
To: Berthier, Jacinta <Jacinta.Berthier@dfo-mpo.gc.ca>
Cc: Docherty, Verna <Verna.Docherty@dfo-mpo.gc.ca>
Subject: RE: Mackerel input to NHQ

Sorry,

I forgot the input to the briefing note (to the Minister) on specific management measures in place regionally. I am working on this now. They are requesting:

- provide some paragraphs on your monitoring procedures in each respective region, any changes that are planned, timelines and how your expect this to improve data collection in your region. If there are other procedures that can be implemented more long term then please let me know (ie e-logs).
- provide some information on expected harvester reaction on any proposed changes in monitoring in you region with your input.

Christa Waters
Regional Senior Fisheries Management Advisor
Resource Management | Gestion des Pêches
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From: Waters, Christa
Sent: April 11, 2017 10:46 AM
To: Berthier, Jacinta
Cc: Docherty, Verna (Verna.Docherty@dfo-mpo.gc.ca)
Subject: Mackerel input to NHQ

Hello Jacinta,

- Here are some draft paragraphs that we could use for an email to NHQ. It's is formatted based on a similar email on the same subject sent from Stefan to NHQ in 2014. As a result it tends to be more colloquial. The email is focused more on TAC than specific management measures to be implemented Regionally as these will differ greatly over the four regions.

file:\\R:\Fisheries Management\Resource Management\Reference\Species\Pelagic Small - General\Briefing Notes\2017_Mackerel Regional input_draft_clw.docx

- I would also like to send an email to NHQ with the summary of what we heard from the supplementary meeting with Aboriginal groups. It was reviewed by Ted and Verna already. Would you mind if I sent this?

file:\\R:\Fisheries Management\Resource Management\Reference\Species\Pelagic Small - General\email\Aboriginal group supp meeting mackerel summary for email.docx

- I anticipate putting together a Briefing Note for our RDG next on what management measures we will implement and the timeline next. What goes in that BN will be influesnced on how aggressive the Minister would like to be for this stock.

Christa Waters
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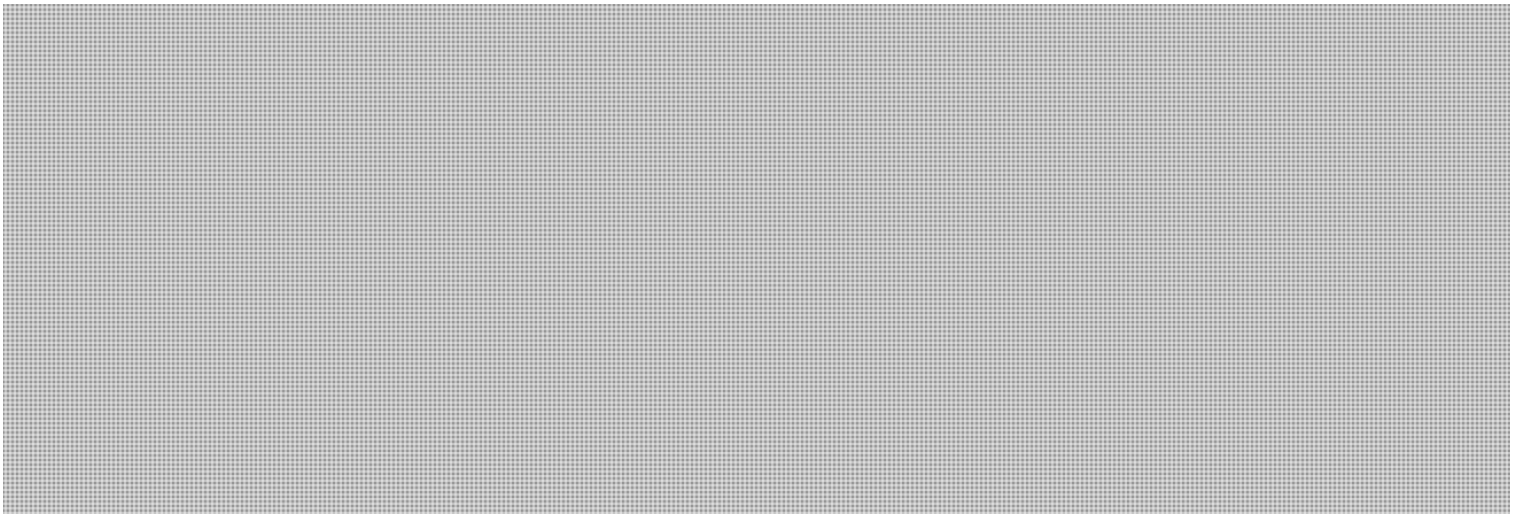
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s.21(1)(b)

Waters, Christa

From: Waters, Christa
Sent: April-11-17 11:11 AM
To: Cawthray, Jenness
Cc: Lester, Brian
Subject: RE: Monitoring measures for mackerel

Hello,

I am working on this now Jenness. Although the description of what is already in place is relatively easy, I am finding it difficult to determine what management measure changes we are going to move forward with implementing. What we move forward on (and how quickly) will depend on things we do not know yet. First, I have no idea what our RDG will agree to. What he agrees to will depend on the messaging from the MinO on how aggressively we want to rebuild the stock. If we have a low TAC – that suggest that we may want to implement things much faster. If we have a higher TAC, it suggest that we can implement measures more slowly (i.e. for 2018).



That being said, I feel we have some obvious changes that could be made and should be made. It's more the timing and how aggressively we are acting.

Just wanted to let you know where we are at... I will get that stuff to you ASAP.

C

From: Cawthray, Jenness
Sent: April 11, 2017 8:43 AM
To: Waters, Christa; Mallet, Pierre; Dunne, Erin; Rivierre, Antoine; Gaudet, Mario; Thomas, Tashina
Cc: Lester, Brian
Subject: RE: Monitoring measures for mackerel

Hi Everyone,
If you could also provide some information on expected harvester reaction on any proposed changes in monitoring in you region with your input.
Thanks,
Jenness

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From: Cawthray, Jenness
Sent: April-10-17 11:21 AM
To: Waters, Christa; Mallet, Pierre; Dunne, Erin; Rivierre, Antoine; Gaudet, Mario; Thomas, Tashina
Cc: Lester, Brian
Subject: RE: Monitoring measures for mackerel

Would end of day Wednesday be doable?

From: Waters, Christa
Sent: April-10-17 10:25 AM
To: Cawthray, Jenness; Mallet, Pierre; Dunne, Erin; Rivierre, Antoine; Gaudet, Mario; Thomas, Tashina
Cc: Lester, Brian
Subject: RE: Monitoring measures for mackerel

Jenness,
Good Idea. Can you gives us a deadline pls? I will have to get mine approved at least to the RD level (maybe higher),
Christa

From: Cawthray, Jenness
Sent: April 10, 2017 11:19 AM
To: Mallet, Pierre; Dunne, Erin; Rivierre, Antoine; Gaudet, Mario; Thomas, Tashina; Waters, Christa
Cc: Lester, Brian
Subject: Monitoring measures for mackerel
Importance: High

Hi Everyone,

As I draft the memo it would be useful if you could provide some paragraphs on your monitoring procedures in each respective region, any changes that are planned, timelines and how your expect this to improve data collection in your region. If there are other procedures that can be implemented more long term then please let me know (ie e-logs). I appreciate that we have had already had some high level discussion on this during our conference calls; however, it would be useful if these procedure are drafted with more detail.
I will use this either as part of the memo depending on how much information we have on this issue or as an attachment to memo.
Thanks!

Jenness Cawthray
Senior Fisheries and Aquaculture Management Officer |
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s.21(1)(b)

Waters, Christa

From: Waters, Christa
Sent: April-11-17 3:58 PM
To: Doniol-Valcroze, Thomas
Subject: RE:
Attachments: supplementary meeting with Aboriginal groups March 28th; 2017_Mackerel Regional input_draft_clw.docx

Hey,

I was just curious what Science was supporting for a harvest...Brian and Jenness met with Science (not sure who -you?) yesterday.

I have put together a few pieces of work on this from our Region. One email already sent, and one that I am just waiting for approval on (in word document). The wording may change slightly.

Anyways... not a big deal, just trying to see if I can get any traction on a more cautious TAC.

Have a good one

From: Doniol-Valcroze, Thomas
Sent: April 11, 2017 3:53 PM
To: Waters, Christa
Subject: RE:

Christa,

Do you mean Julie's Science or do you mean us (Martin and I) ?

Thomas

De : Waters, Christa
Envoyé : 11 avril 2017 10:17
À : Doniol-Valcroze, Thomas
Objet :

Hello,
Do you know what Science said it would support for a TAC? [redacted]

Christa

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Waters, Christa

From: Waters, Christa
Sent: April-11-17 3:06 PM
To: Lester, Brian
Cc: Cawthray, Jenness; Jenkins, Randy; Wentzell, Doug; Berthier, Jacinta
Subject: supplementary meeting with Aboriginal groups March 28th

Brian,

The supplementary meeting with Aboriginal groups was well attended on March 28th. I believe this meeting was a step in the right direction as the Government of Canada and DFO are working to advance reconciliation with Indigenous people and to further a nation-to-nation relationship with Indigenous peoples, based on recognition of rights, respect, cooperation and partnership.

The view around the room was that DFO should protect the Aboriginal right to fish for Mackerel for Food Social and Ceremonial (FSC) and commercial purposes (including Mackerel for bait for FSC Lobster fishery). In addition, it was communicated that the cultural importance of mackerel to Aboriginal communities is significant.

Although few specific management measures were suggested, the group advised that a cautious approach to increase the chances of rebuilding the stock was being sought. It was felt that harvesting at the current level on a stock deep in the critical zone was neither appropriate, nor responsible and threatened Aboriginal rights. More formal consultation has been requested for bigger decisions (i.e. through the Made in Nova Scotia process, KMK).

This meeting appeared help improve the relationship between the Department and Aboriginal groups. This relationship, specific to Mackerel, has been fractured due to the belief by Aboriginal groups that their input appeared to be ignored at the last AMAC (including letters that were submitted). In fact, not one mitigation measure for the concerns of the Aboriginal groups was offered in 2014, with the exception of an increase in minimal size.

From a Departmental perspective, there is a great deal riding on this meeting and the input we received. This is also true from a Maritimes Region perspective where we have worked hard to develop relationships with our Aboriginal partners over the years. There is an expectation that the advice we received was not only heard, but understood and will be taken into account when it comes to any decisions on this fishery. Moreover, it was stated more than once that the advice the Department received in that meeting needs to be properly weighted. Again, I believe this meeting advanced the Ministers mandate letter and our Departmental Plan (2017-18) as long as we properly consider the advice we received.

Regards,

Christa

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Summary of science assessment: Findings indicate that the mackerel spawning biomass has been declining since the mid-2000s reached its lowest recorded level in 2012 and is relatively stable and with a slightly upwards trend since 2012. Other biological indicators (i.e. age of maturity) are relatively stable. A slight improvement in the age structure can be seen since the last assessment, a truncated age structure still exists where the catch focused on 2 and 3 year olds with no 6+ in the catch. The only significant spawning ground is depleted. The development of the PA concluded that Mackerel was in the critical zone. Given the critical situation of the stock, the assessment concluded that the priority is for its reconstruction.

In our analysis / advice to the Minister we should be clear what our objective is. Pretty much all could agree that improvements to stock status are required (status includes biomass and the various additional components like size distribution, improved spawning - spatial and temporally, etc). In addition, improvements in the undeclared catch from illegal harvesting, bait and recreational removals was advised from science and should be an objective, which will in turn, help to rebuild the stock.

What options should be in front of the Minister in order to result in the rebuilding of the stock? We have policies to guide us when making decisions regarding the rebuilding of fish stocks (*A Fisheries Decision-Making Framework Incorporating the Precautionary Approach*; Rebuilding plan guidelines). Therefore, any decision for this stock should make explicit reference to what policy guidance exists.

We should be mindful of the comments made by Aboriginal organizations about the effect commercial harvest have on their FSC access. Our Aboriginal Communities have communicated to us that this is an important fishery for them, and that their legal right for mackerel for FSC purposes is being compromised. More formal consultation has been requested (i.e. through the Made in Nova Scotia process, KMK). Moreover, the Ministers Mandate letter and the Departmental plan for 2017-18 require our focus on reconciliation with Indigenous groups. From our 2017-18 Departmental Plan '*Fisheries resources and aquatic habitats have profound social, cultural and economic significance for Indigenous Peoples. Addressing Aboriginal rights, interests and aspirations through fisheries-related economic opportunities and participation in collaborative management are a means to strengthen our nation-to-nation relationships'*. These factors suggest more caution, not less.

Although as an existing fishery, mackerel is not covered by thinking on the forage species policy (not that it yet exists), nevertheless the concept of the ecosystem role mackerel plays ought to matter, and would again, serve to make us more cautious, not less.

TAC

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s.21(1)(b)

A recommendation of a commercial catch over 10,000 mt TAC (~16,000 mt total) is, a non-constraining commercial limit as the commercial catch hasn't exceeded that number since 2011.

A catch recommendation should be shown not to have an impact on stock rebuilding. Our own PA guidance says that "when a stock has reached the Critical Zone, a rebuilding plan must be in place with the aim of having a high probability of the stock growing out of the Critical Zone within a reasonable timeframe". In addition it states that 'In the critical zone, management actions must promote stock growth and removals from all sources must be kept to the lowest possible level until the stock has cleared this zone. There should be no tolerance for preventable decline.' So, since 2012, catches of less than <~7500 (see table) have proven not to hinder rebuilding and allow for improvement in one indicator. A commercial harvest at this level (assuming ~<6000 undeclared catch) would give a .81 probability of the stock growing above current levels in 2019, with a .3 probability of bring above the LRP by 2019. Any other TAC options presented to the Minister should represent increasingly certain and increasingly rapid stock improvements.

Year	TAC	Total Catch
2007	75000	53017
2008	75000	29671
2009	75000	42231
2010	60000	38753
2011	60000	11401
2012	36000	6468
2013	36000	7431
2014	10000	6524
2015	8000	4145

Other Management measures:

It would be reasonable to recommend that there be a temporary freeze on issuance of any new licences for 2017 until a rebuilding plan and/or a new IFMP are developed (Section 11 (4) if the Commercial fisheries licensing policy for Eastern Canada – 1996, offers this as an option when stocks are overfished). Allowing new entrants and the possibility of increased effort is counter to our desire to rebuild the stock.

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Our other management objective is to make improvements to decrease the amount of undeclared catch from bait and recreational harvesting and any other removals. This amount varies by gear and region. Improvements in each region are required.

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s.16(2)

Thomas, Tashina

From: Lapierre, Daniel
Sent: April-12-17 10:02 AM
To: Thomas, Tashina
Subject: FW: Question - Mackerel Weigh Out form

Hi Tashina,

Further to what we discussed in regards to which form should be used by DMC's to collect weigh out for mackerel, here's what my colleague from NFLD had replied.

Cheers

Daniel

From: Warren, Janet
Sent: 2017–April-12 9:57 AM
To: Lapierre, Daniel
Subject: RE: Question - Mackerel Weigh Out form

I'm not sure if there's anything other than the usual tally form used for all species but I can check on it and let you know.

From: Lapierre, Daniel
Sent: April-11-17 2:29 PM
To: Warren, Janet
Subject: Question - Mackerel Weigh Out form

Hi Janet,

Resource management is looking at implementing DMP to mackerel fisheries in the Gulf region this year, I was wondering, since the mackerel is already covered under DMP in your region, if DMC's in already used a specific form for the weigh out ?

Thank you,

Daniel Lapierre

Dockside Monitoring and At Sea Observer Programs Coordinator
Fisheries and Oceans – Gulf Region/Government of Canada
daniel.lapierre@dfo-mpo.gc.ca / Tel : 506-851-6214 / Cell: [redacted] / Fax : 506-851-2504

Coordonnateur des Programmes de vérification à quai et d'observateur en mer
Pêches et Océans Canada – Région du Golfe/Gouvernement du Canada
daniel.lapierre@dfo-mpo.gc.ca / Tél : 506-851-6214 / Mobile: [redacted] / Télécopieur : 506-851-2504

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s.16(2)
s.21(1)(b)

Berthier, Jacinta

From: Berthier, Jacinta
Sent: Wednesday, April 12, 2017 2:07 PM
To: Waters, Christa
Cc: Docherty, Verna
Subject: RE: Mackerel input to NHQ

Hi Christa,

I reviewed, only a few small editorial changes. Looks good in terms of input to NHQ on Mackerel.

In terms of RDG approval, ideally NHQ can share a draft at a minimum that we can review with the RD and RDG.

Thanks,
JB

Jacinta Berthier

Director, Resource and Aboriginal Fisheries Management
Fisheries and Oceans Canada | Government of Canada
Jacinta.Berthier@dfo-mpo.gc.ca |Tel: 902 426-7681 | Cel: [redacted]

Directrice Gestion des ressources et pêches autochtones
Pêches et Océans Canada | Gouvernement du Canada
Jacinta.Berthier@dfo-mpo.gc.ca | Tél. : 902 426-7681 | Tél. cell. : [redacted]

If you have received this communication by mistake, please notify the sender immediately and delete the communication without printing, copying or forwarding it. Thank you.

Si vous avez reçu cette communication par erreur, veuillez en aviser l'expéditeur immédiatement et la supprimer sans l'imprimer, la copier, ou la faire suivre. Merci.

From: Waters, Christa
Sent: Tuesday, April 11, 2017 1:56 PM
To: Berthier, Jacinta <Jacinta.Berthier@dfo-mpo.gc.ca>
Cc: Docherty, Verna <Verna.Docherty@dfo-mpo.gc.ca>
Subject: RE: Mackerel input to NHQ

Hello Jacinta,

This is the last thing I will provide you today. This is a simple point form summary of the data requested from NHQ to add to their briefing note. It gets complicated as our timelines are really going to depend on how aggressively the Minister would like to see rebuilding of this stock. I tried to articulate that in the document. [redacted]

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file:\\R:\Fisheries Management\Resource Management\Reference\Species\Pelagic Small - General\Briefing Notes\2017_Maritimes Specific management changes_clw.docx

There was once a policy that the RDG needed to approve Regional input to BN. Maybe Doug should at least discuss some of this input with the RDG?

Thanks,

Christa

From: Waters, Christa
Sent: April 11, 2017 10:50 AM
To: Berthier, Jacinta
Cc: Docherty, Verna (Verna.Docherty@dfo-mpo.gc.ca)
Subject: RE: Mackerel input to NHQ

Sorry,

I forgot the input to the briefing note (to the Minister) on specific management measures in place regionally. I am working on this now. They are requesting:

- provide some paragraphs on your monitoring procedures in each respective region, any changes that are planned, timelines and how your expect this to improve data collection in your region. If there are other procedures that can be implemented more long term then please let me know (ie e-logs).
- provide some information on expected harvester reaction on any proposed changes in monitoring in you region with your input.

Christa Waters
Regional Senior Fisheries Management Advisor
Resource Management | Gestion des Pêches
Maritimes Region | Région des Maritimes
Telephone | Téléphone 902-293-6541

From: Waters, Christa
Sent: April 11, 2017 10:46 AM
To: Berthier, Jacinta
Cc: Docherty, Verna (Verna.Docherty@dfo-mpo.gc.ca)
Subject: Mackerel input to NHQ

Hello Jacinta,

- Here are some draft paragraphs that we could use for an email to NHQ. It's is formatted based on a similar email on the same subject sent from Stefan to NHQ in 2014. As a result it tends to be more colloquial. The email is focused more on TAC than specific management measures to be implemented Regionally as these will differ greatly over the four regions.

file:\\R:\Fisheries Management\Resource Management\Reference\Species\Pelagic Small - General\Briefing Notes\2017_Mackerel Regional input_draft_clw.docx

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- I would also like to send an email to NHQ with the summary of what we heard from the supplementary meeting with Aboriginal groups. It was reviewed by Ted and Verna already. Would you mind if I sent this?

file:\\R:\Fisheries Management\Resource Management\Reference\Species\Pelagic Small - General\email\Aboriginal group supp meeting mackerel summary for email.docx

- I anticipate putting together a Briefing Note for our RDG next on what management measures we will implement and the timeline next. What goes in that BN will be influesnced on how aggressive the Minister would like to be for this stock.

Christa Waters
Regional Senior Fisheries Management Advisor
Resource Management | Gestion des Pêches
Maritimes Region | Région des Maritimes
Fisheries and Oceans Canada | Pêches et Océans Canada
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Dartmouth, NS Canada B2Y 4A2 | Dartmouth, NÉ Canada B2Y 4A2
Christa.Waters@dfo-mpo.gc.ca
Telephone | Téléphone 902-293-6541
Government of Canada | Gouvernement du Canada

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Boudreau, Carol-Ann

From: Krohn, Martha
Sent: April-13-17 3:10 PM
To: McCallum, Barry; de Lafontaine, Yves
Cc: White, Andrea; Landry, Jean; Marentette, Julie
Subject: FW: TAC Considerations for Atlantic Mackerel - supplementary deck
Attachments: Mackerel 2017 TAC Considerations 170413.ppt; Atlantic Mackerel Assessment Briefing Deck 170328.ppt; Atlantic Mackerel 101 March 28 2017.docx; Annexe 1 Sommaire maquereau _fra_ang.docx; Converting Mackerel Projections to TACs 170328 final.docx; Atlantic Mackerel Fish Profile 2017-03028 final.docx

Importance: High

Hi Barry and Yves,
Please find attached a few additional slides to address the discussion on mackerel TACs on Tuesday, as requested by Trevor. Adding in briefing material previously provided for the meeting so it is all in one place.
Thanks!
Martha

From: Marentette, Julie
Sent: April-13-17 2:55 PM
To: Krohn, Martha
Subject: TAC Considerations for Atlantic Mackerel - supplementary deck
Importance: High

Good afternoon Martha,

Please find attached a slide deck concerning EFM, industry and Science TAC considerations for Atlantic Mackerel.
Best regards,

Julie Marentette, Ph.D.

Science Advisor, Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Julie.Marentette@dfo-mpo.gc.ca /Tel: 613-943-2098

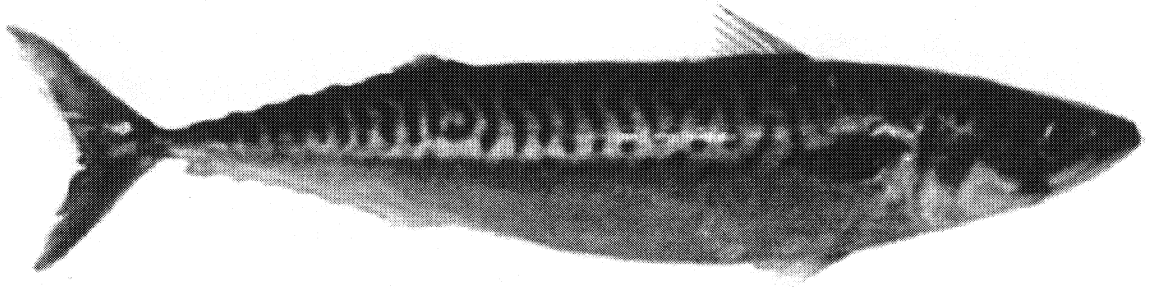
Conseillère scientifique, Sciences des populations halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Julie.Marentette@dfo-mpo.gc.ca /Tél: 613-943-2098

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TAC Considerations

Atlantic Mackerel

(NAFO Subareas 3-4)



April 13, 2017

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Considerations of EFM/Industry

- Regional FM: **14,000 t to 20,000 t**
- Industry (AMAC): **20,000 t or higher**
- Upcoming EFM Memo: **10,000 t TAC (~16,000 t total)**
- 6,000 t average undeclared catch (model)
  - EFM estimates 5,000 t
  - If undeclared can be ↓, would permit higher TAC within a given total catch projection
- EFM options to improve reporting currently include:
  - E-logs, hailing = 25% dockside monitoring, provisions to include hand-lines in bait licenses (so catch can't be considered recreational)
  - Recreational bag limits unlikely for 2017
  - Some regions have or will have reporting as licence requirement
- The full TAC was caught early last year for the first time, resulting in some fleets being left out of the fishery. This will increase pressure on the TAC level

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TAC Options (Science perspective)

Declared and Undeclared (t)	2017 SSB (t)	2019 SSB (t)	Prob >2016	Note
14,000	48,283	72,189 (49.5% ↑)	81%	RED = Status quo. NAFO PA Framework (high prob = 80%).
16,000	48,283	66,158 (37.0% ↑)	77%	BLUE = EFM Memo. DFO PA Framework (high prob = 75-95%)
18,000	48,283	57,113 (18% ↑)	70%	
20,000	48,283	51,348 (6.3% ↑)	64%	

- If total > 20,000 t, SSB increasingly unlikely to grow (50% or less)
- If fishery is closed (0 t), SSB 56% likely to exceed LRP (103,000 t) by 2019

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Rebuilding Potential

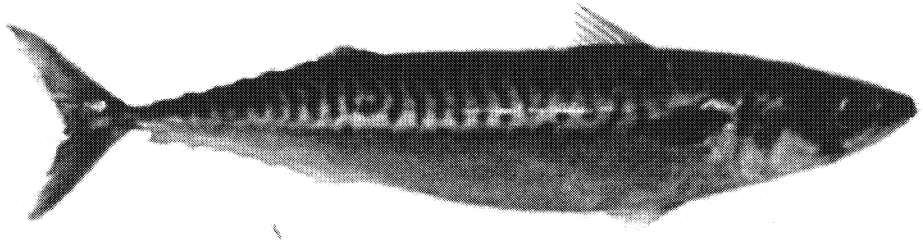
- Given that the stock is in the critical zone, an option that allows a high probability of growth would be expected
- Unlike cod and shrimp, the stock trajectory is very influenced by the TAC level, arguably making this a good opportunity to maintain low removals to quickly rebuild a depleted stock

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Fisheries and Oceans Canada | Pêches et Océans Canada

Briefing Update

Assessment of Atlantic Mackerel (NAFO Subareas 3-4)



March 8-9, 2017, Institut Maurice-Lamontagne, Mont-Joli, QC

Julie Marentette

Fisheries Population Science

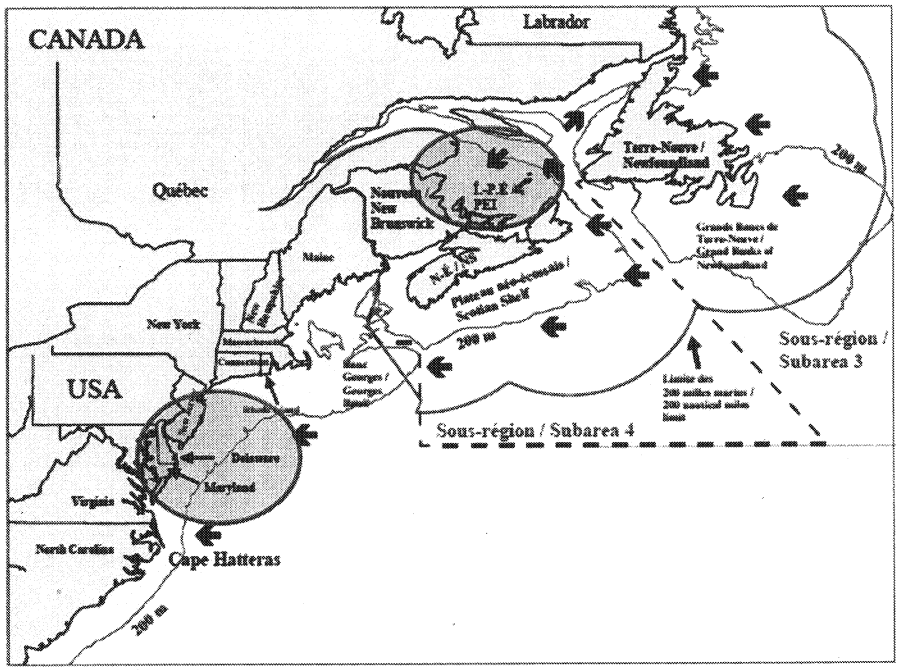
Last updated March 28, 2017

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Background

- Schooling, migratory, pelagic fish
- Used as bait for lobster/crab
- Spawn in Gulf of St. Lawrence, overwinter on continental shelf
- 50% mature at 1.4 years (26 cm)
- Fully mature and fully recruited to fishery by ~ age 3



Castonguay, Doniol-Valcroze et al. in prep

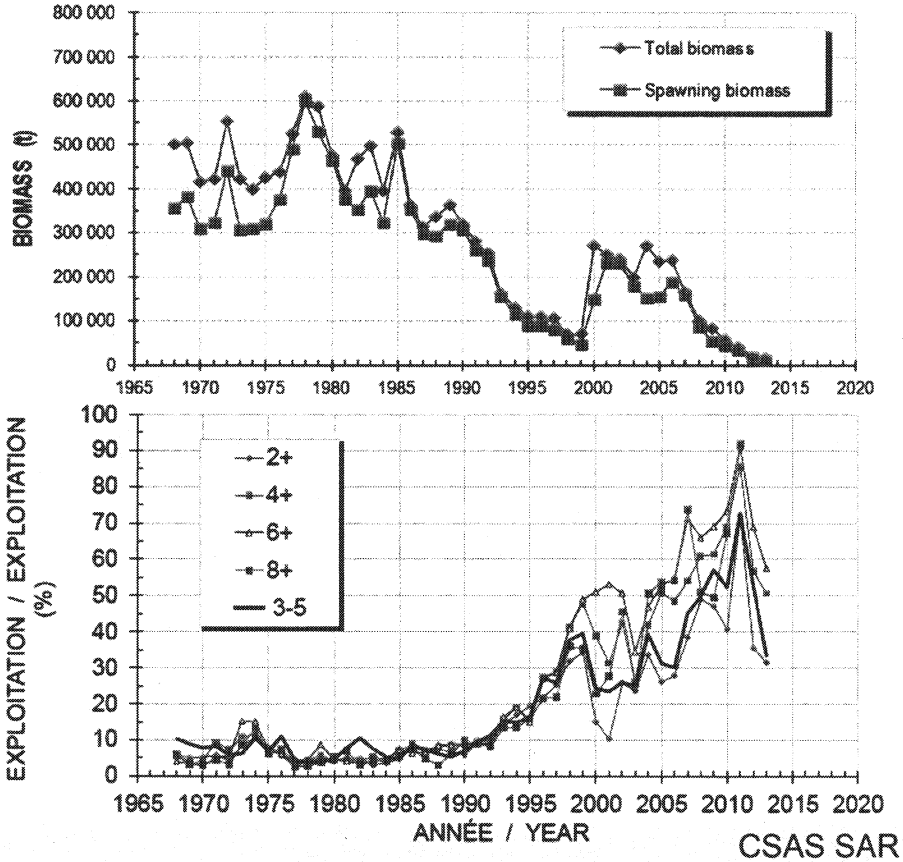
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2014 Assessment – Where were we?

- Commercial landings and biomass ↓, fishing mortality ↑
- Egg survey ↓, contracting age structure
- Modelled stock abundance at lowest historic level in 2013
- **Stock status: Critical**, because SSB was below three candidate LRPs
- Based on Sequential Population Analysis (SPA) model and declared catches, SAR recommended TAC of 800 t
- Model predicted unrealistically low biomass
- TAC ultimately set at 8000 t



CSAS SAR 2014/030

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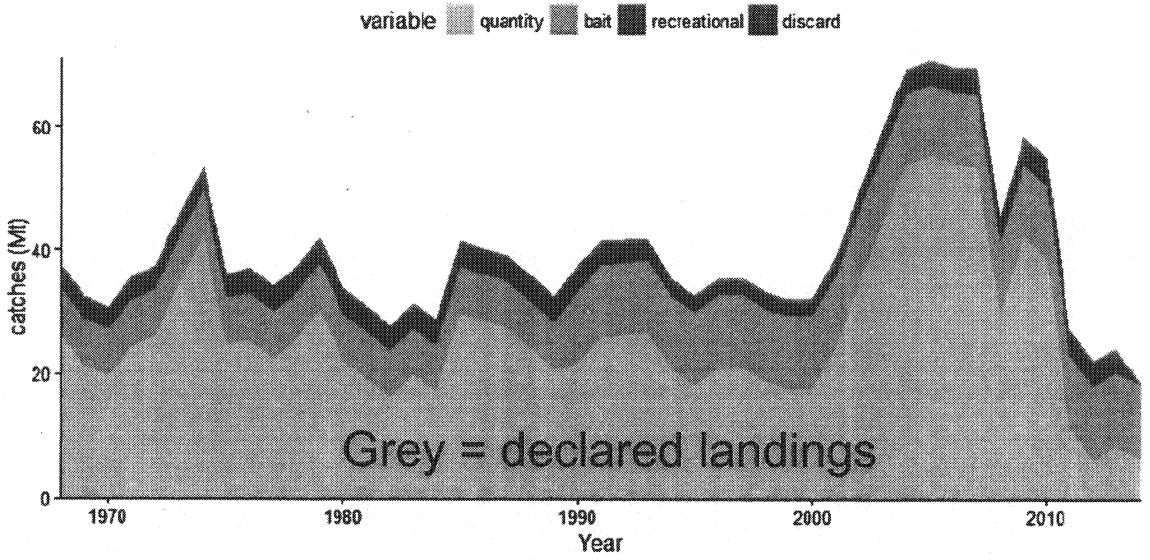
Uncertainty in the Mackerel Fishery

- Only commercial landings are declared
- Undeclared Mackerel caught as:
  - Bait for personal use
  - Sold fisher-to-fisher
  - Recreational use
  - Discard mortality, unfilled logbooks
- Unknown proportion of US landings are Northern (Canadian) fish

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2016: Estimating Undeclared Catch

- 2016 internet survey of recreational/bait use
- Literature review of region-specific bait needs
- Total catches can range from **150-200%** of declared catches



Van Beveren, Doniol-Valcroze et al. in prep

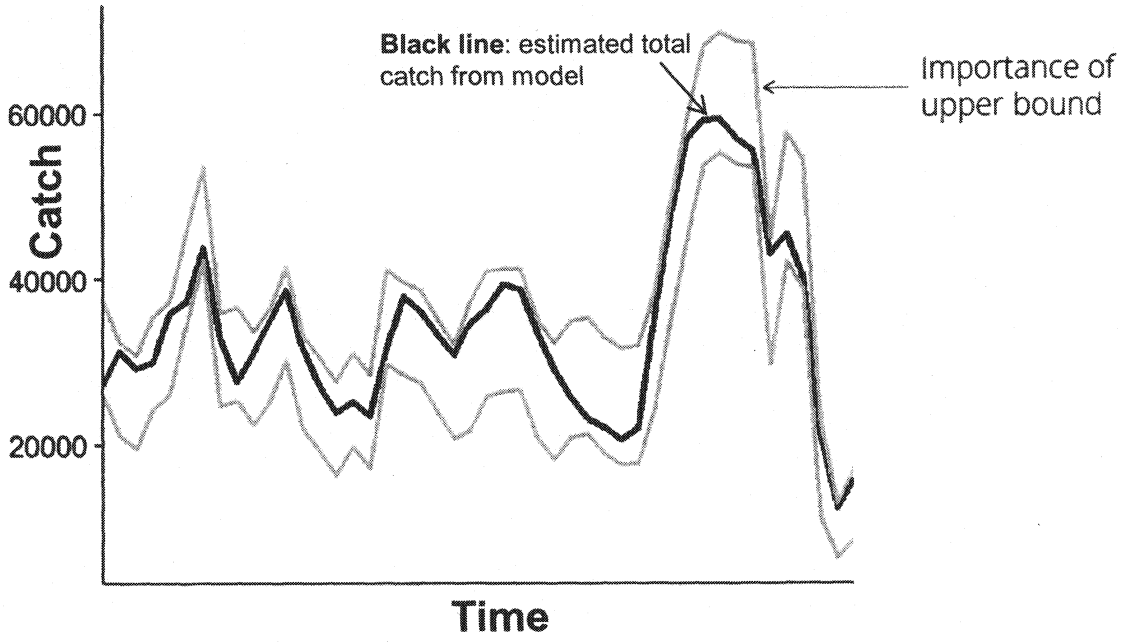
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January 2017 – A New Framework

- A **censored statistical catch-at-age (SCA) model** was developed to accommodate uncertainty on catch
- Declared catch = lower limit
- Possible total catch = upper limit
- **Inputs**: limits, abundance index from egg survey, stock-recruit relationship, M, growth
- **Outputs**: Estimated 'actual' catch, total/spawning biomass, F, recruitment
- Results broadly consistent with 2014 assessment in pointing to recent declines



Van Beveren, Doniol-Valcroze et al. in prep

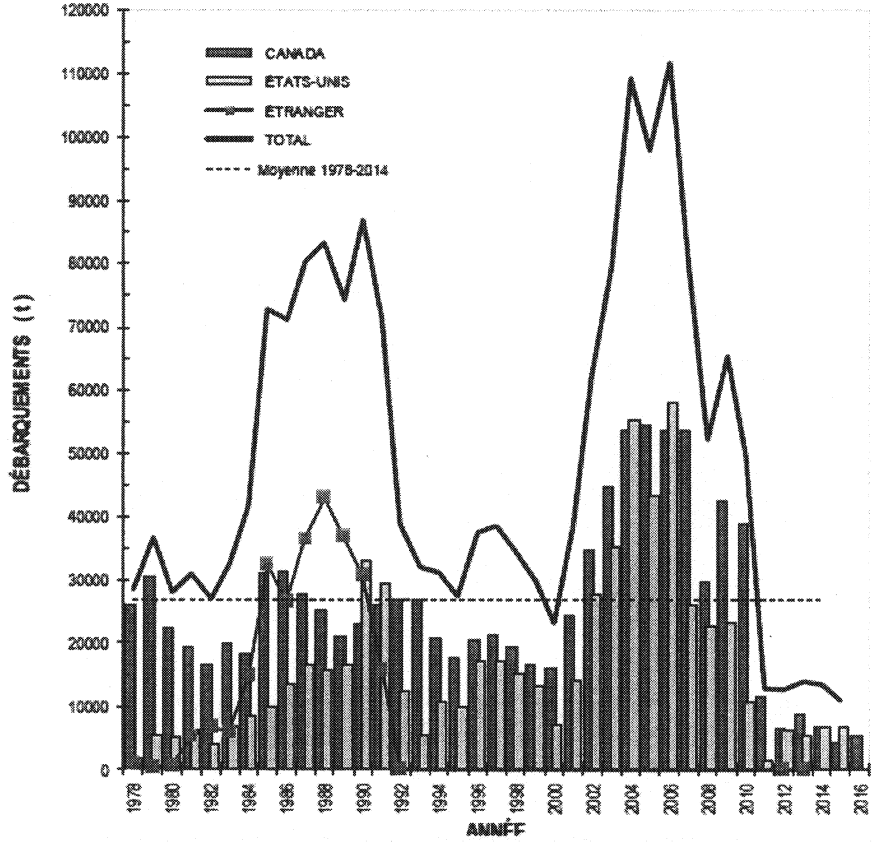
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New Data – Commercial Catch 2013-16

- Declared catches continue to be low
- October 2016: Fishery closed as TAC of 8,000 t reached early
  - Most catches appear to be from NL (division 3K), instead of 4R
  - Regional data from 2016 still preliminary



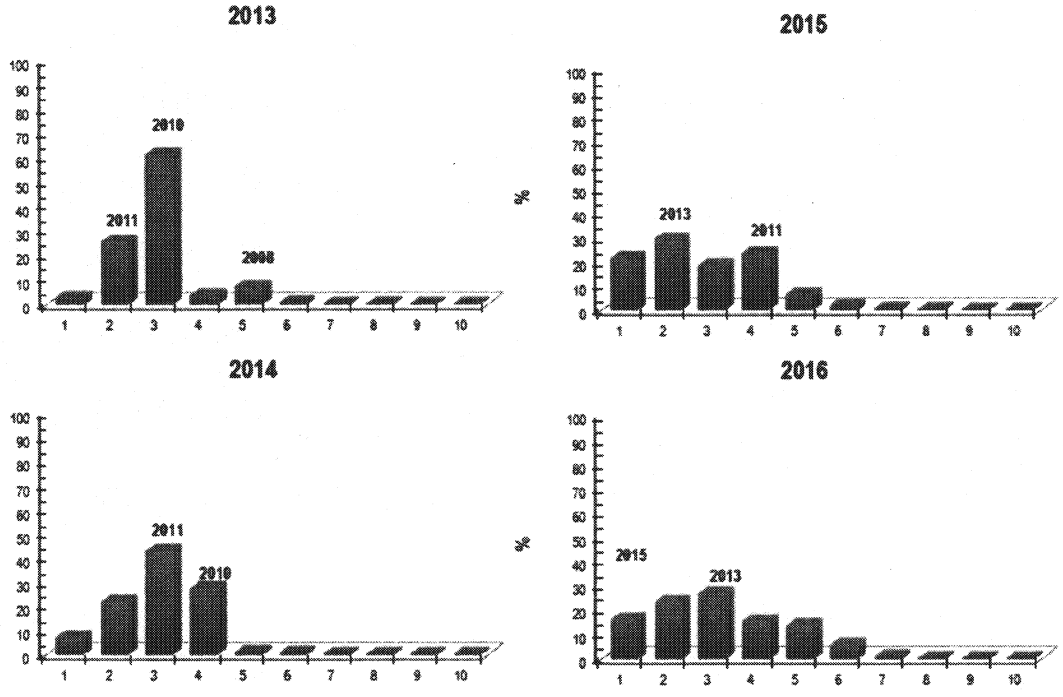
Doniol-Valcroze et al. in prep

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New Data – Age Structure 2013-16



Age structure has been expanding slightly since 2013.

Doniol-Valcroze et al. in prep

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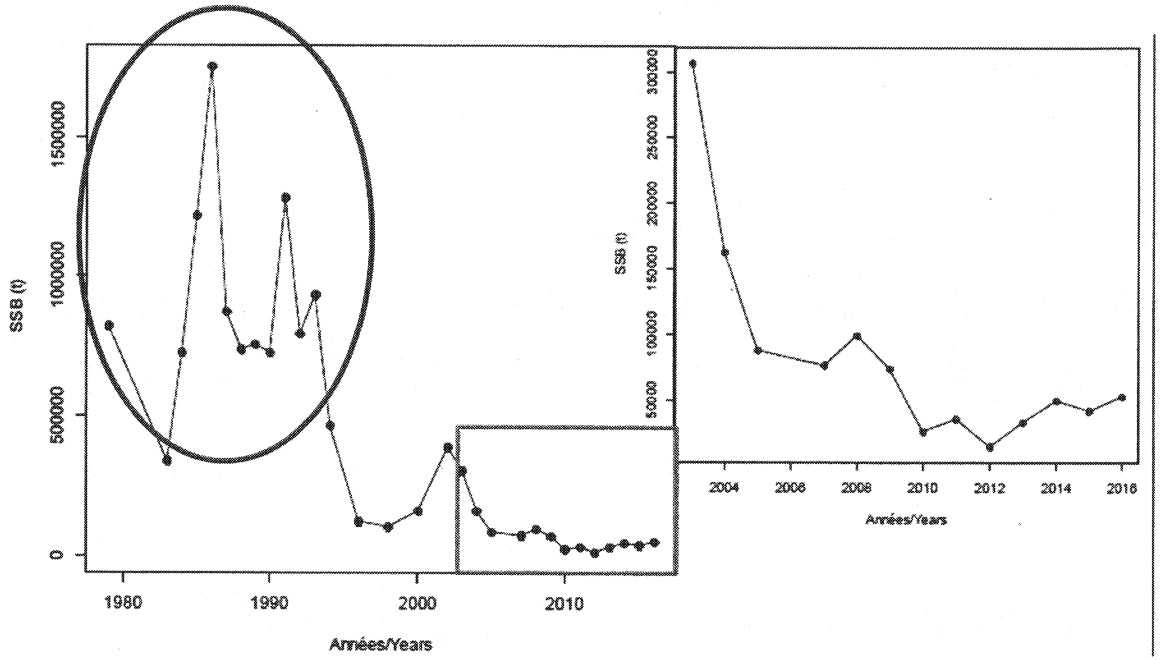
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New Data – Abundance Index from Egg Survey

Using the egg data alone, mackerel reached historically low spawning stock biomass (SSB) in 2012 and has slightly increased since.

SSB early in the time series (green circle) may be affected by issues with egg sampling methods.



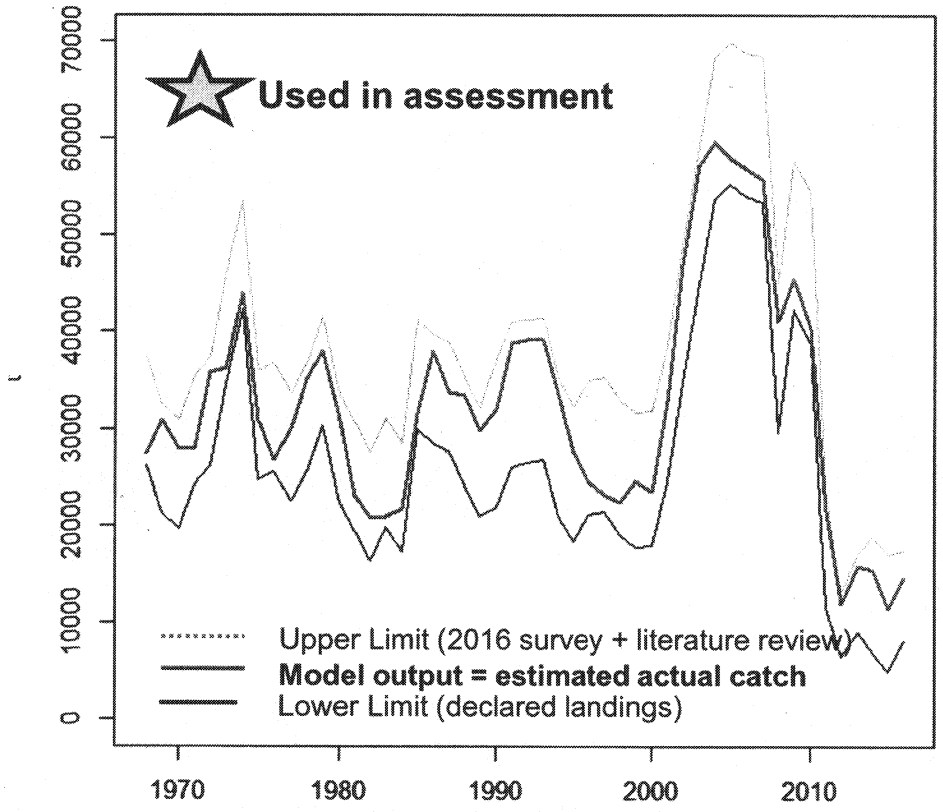
Doniol-Valcroze et al. in prep

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March 2017 – Censored Model and New Data



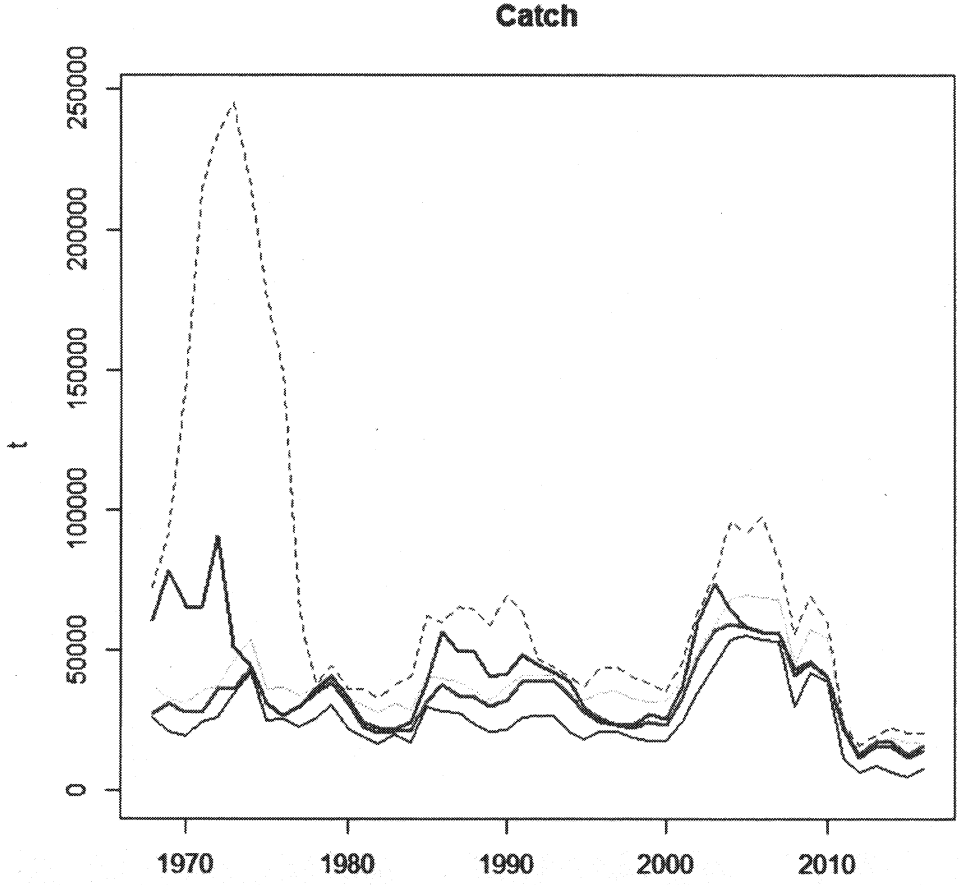
The censored SCA model indicates **recent declines in catches (since ~ 2005) are robust to changes in the model upper limit**, although total catch over the time series will increase as the upper limit increases. (The model will use some of the extra space you give it.)

Doniol-Valcroze et al. in prep

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March 2017 – Censored Model and New Data



Upper Limit (50% US/foreign catch)
Model output = estimated actual catch

Upper Limit (2016 survey + literature review)
Model output = estimated actual catch
Lower Limit (declared landings)

Doniol-Valcroze et al. in prep

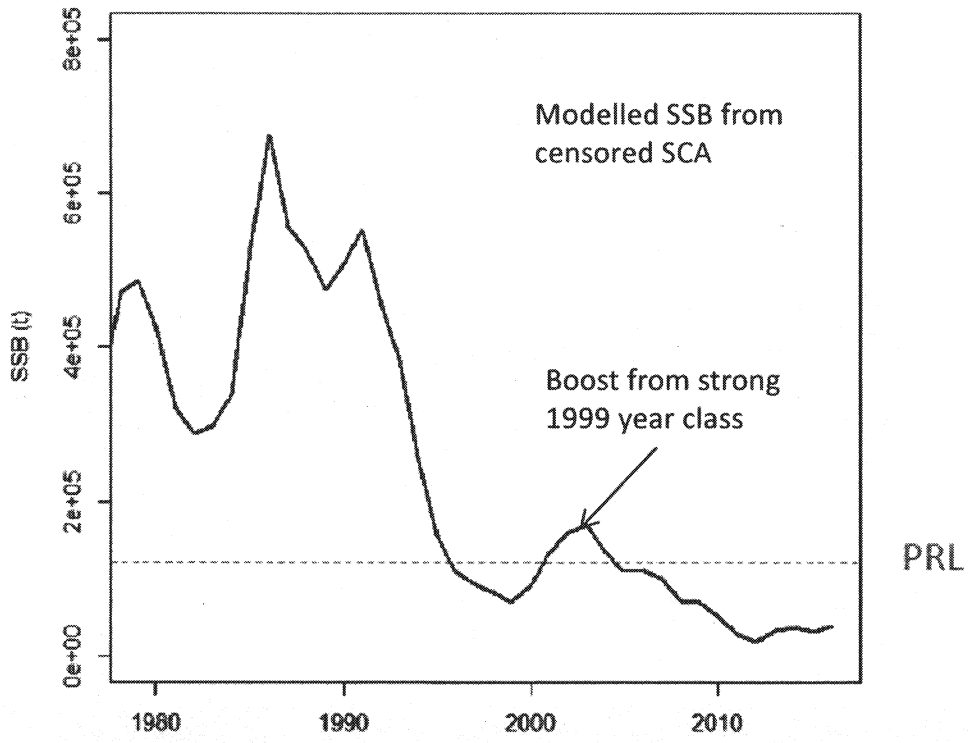
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March 2017 - Updated Stock Status

SSB (2016) = 40,000 t; F_{year} decreasing since 2011, but **stock status remains critical.**



Doniol-Valcroze et al. in prep

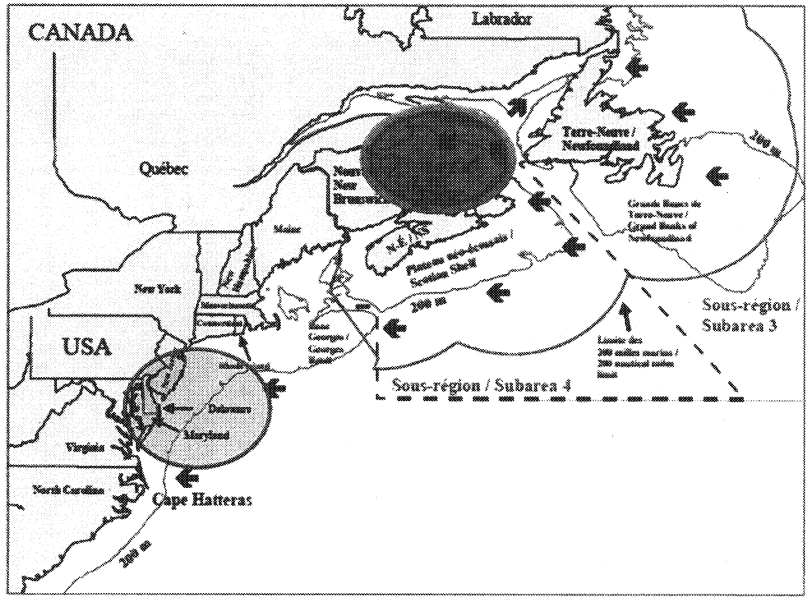
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Transboundary Concerns

- Northern + Southern contingents
- Genetically distinct from European stocks
- US and Canadian stocks do not (yet) appear to be genetically distinguished
  - more research upcoming
- Preliminary otolith microchemistry on age 3 fish in US trawls show they were spawned in Gulf of St. Lawrence, not Gulf of Maine (D. Secor, U. Maryland)
  - More samples being analyzed in advance of NOAA assessment



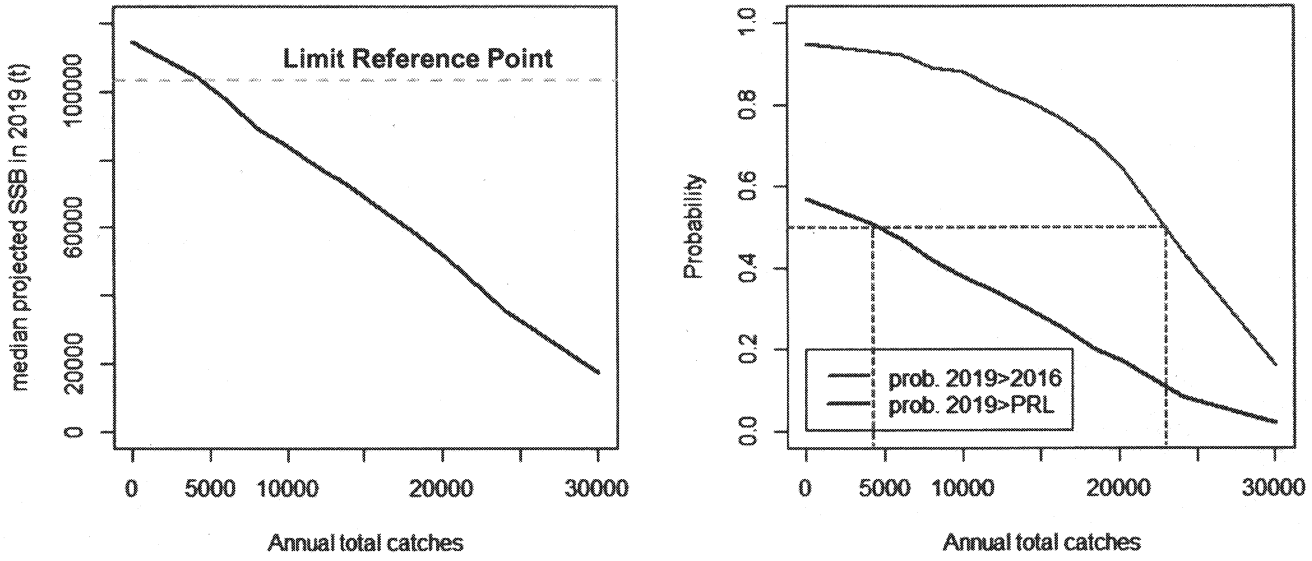
Doniol-Valcroze et al. in prep

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Looking forward: Projections



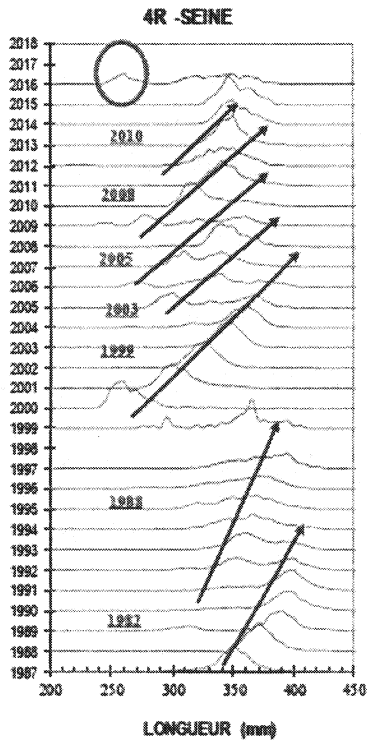
- Stock projected to have at least 50% chance of recovery over LRP by 2019 if total annual catches are no more than 4,000 t, and 50% chance of increase in SSB if total catches are no more than ~ 23,000 t, in 2017-2018
- However, **total catches are estimated to be 1.5 to 2 times higher than reported catches.** The issue of unreported catches will be discussed with stakeholders at AMAC (March 30, 2017).

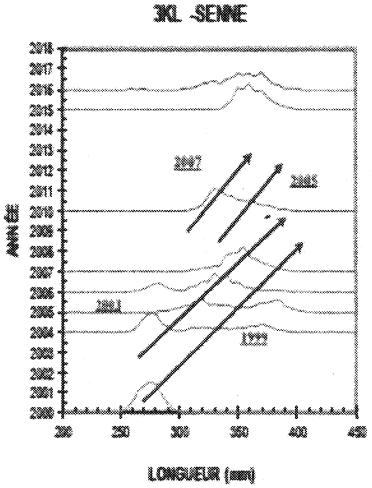
Doniol-Valcroze et al. in prep

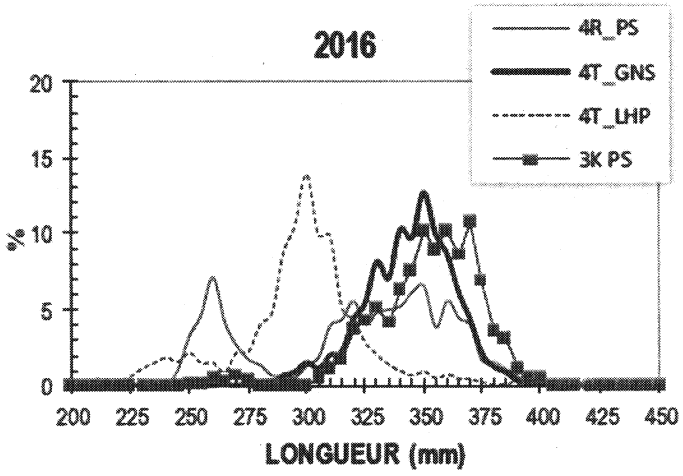
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Looking forward: 2015 Year Class?







Industry has reported **widespread observations of small mackerel**. Small fish are more likely to be seen in division 4R than in 3KL (4R is closer to spawning grounds). However, because the fishery closed early in 2016, most of the commercial catch data ended up coming from in 3KL, so the overall data signature of the young fish is weak. 2015 fish will start spawning in 2017 – egg survey.

Doniol-Valcroze et al. in prep

Canada

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Industry Views

- State that stock is cyclical and more fish are in the water than what Science describes
- Science position:
  - 2017 assessment more credible, currently estimates 40,000 t SSB, whereas 2014 assessment estimated 3,949 t SSB (10-fold difference)
  - trends in SSB are robust to moving the upper limit of catch estimates
- Report large amounts of 'pencil' (young) Mackerel in multiple regions
  - Expected to affect egg survey and appear in commercial catches in 2017

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Research on Mackerel

- Recent Research
  - 2015-2016 field surveys by DFO showed no new spawning grounds
  - Young of Year unexpectedly found in NAFO division 3K sent by DFO Science for genetic analyses
- Upcoming Research
  - Genomic studies to differentiate stocks (US vs. Canada vs. Europe)
  - Otolith microchemistry to target spawning origin (US & Canada)
  - Quantifying habitat for eggs and larvae (temperature, plankton)

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Next Steps

- SAR available in April 2017
  - projections table available to guide consultation and decision-making process for next fishing season
- AMAC (Advisory Council) – March 30th in Halifax
  - TAC decision to follow (end of April)
- Mackerel Season in NAFO Subareas 3 and 4:
  - June to November

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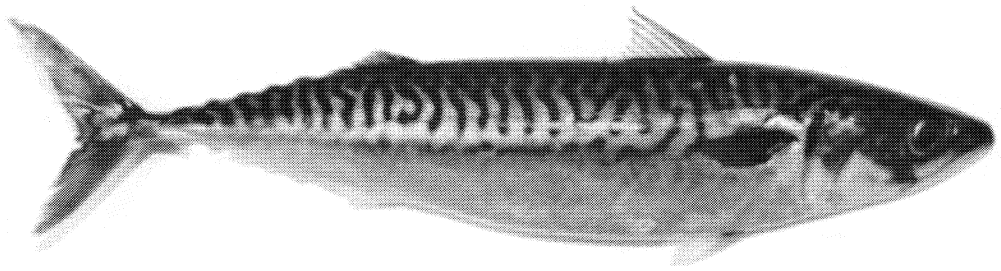
Acknowledgements

- DFO Science – Quebec Region, particularly
  - Martin Castonguay
  - Thomas Doniol-Valcroze
  - Elizabeth Van Beveren

N.B. Information presented here is preliminary. The corresponding Science Advisory Report is not yet available.

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Atlantic Mackerel (*Scomber scombrus*)



Biology

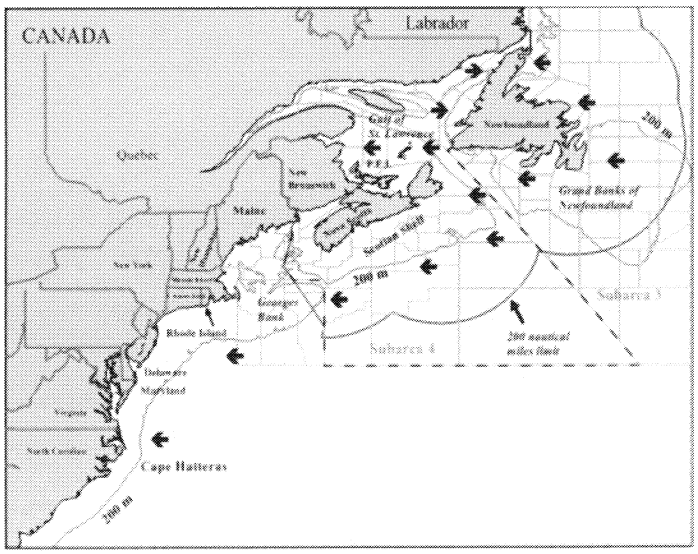
The Atlantic Mackerel is a schooling and migratory species distributed in waters north of Newfoundland down to waters off of North Carolina in the south.

Mackerel are pelagic (inhabit the upper water column), occupying depths of 70-200 m on the continental shelf in the winter.

Mackerel overwinter on the continental shelf and come inshore and to the Gulf of St. Lawrence in the spring and summer to feed and to spawn. The only important spawning area known in Canada is in the southern Gulf of St. Lawrence (NAFO Division 4T). There is also another spawning area in the US on the mid-Atlantic Bight (between Cape Cod and Cape Hatteras.

Atlantic mackerel are 100% sexually mature at ~ 30 cm, or around age 3.

Distribution of Northwest Atlantic Mackerel



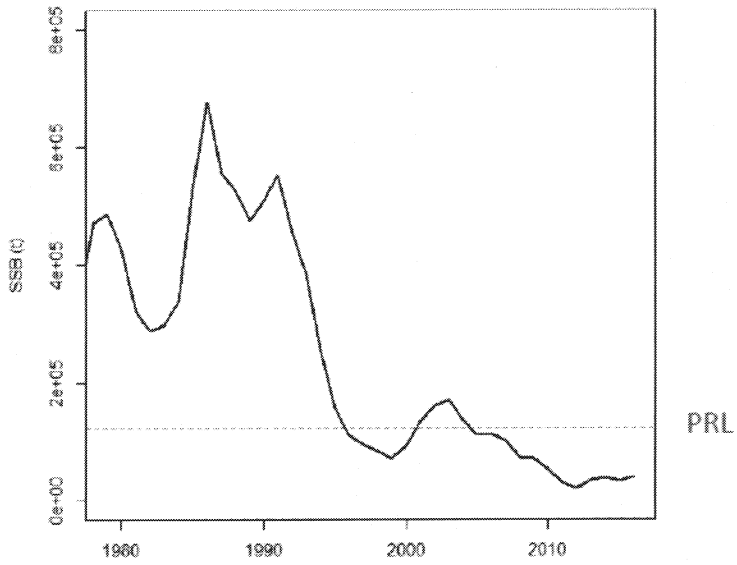
<u>Canadian stock area (NAFO Subareas 3 & 4):</u>
Gulf of Saint Lawrence, surrounding Newfoundland, Bay of Fundy, and Scotian shelf.

<u>American stock area (NAFO Subareas 5 & 6):</u>
Georges Bank, Gulf of Maine, mid-Atlantic Bight south to North Carolina

There are two contingents, one spawns in Canadian waters (in the Gulf of St. Lawrence), and one spawns in US waters (on the northeast US coastal shelf). It remains to be determined if the two contingents form distinct stocks. It is thought that American mackerel does not migrate to Canadian waters but Canadian mackerel does migrate to US waters in the winter and is targeted by the US fishery. As a result, stock assessment in Canada concerns subareas 3-4 only while stock assessment in the US concerns the entire range, i.e., subareas 3 to 6.

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Stock status in brief



The most recent full stock assessment was performed in March 2017 (SAR pending), with another planned for 2019.

Based on the 2017 assessment, Atlantic Mackerel spawning stock biomass (SSB) has been decreasing steadily since the early 2000's, part of a longer term decline starting around 1990. The SSB is currently estimated at 40,000 t, below the Limit Reference Point ('PRL,' left) of 103,000 t (40% Bmsy) and therefore in the Critical Zone.

Age-structure has contracted in recent years; the 6 to 12 year-old age-classes and above were absent from the population. Collapsed age structure is an indication of over-exploitation. A slight expansion of the age structure has been observed since 2013 with the presence of proportionately more 4 to 6 year old individuals in 2016.

Fishery

The fishery is composed of large and small purse seiners, tuck seines (modified bar seines) and other fixed gear (traps, gillnets, lines and weirs). Large seiners have been allocated 40% of the TAC with small seiners and fixed gear allocated 60% of the TAC in recent years. Annual landed value in Canada is ~$5 million.

Historical landings for the whole stock, including those in US waters, were much higher than in recent years, reaching as high as 250 000 tonnes (t; 1970—1976). Past Canadian TACs were also high, having been set at 200 000 t between 1987 and 2000. Total American and Canadian landings are now a small fraction of those levels; for example, total recorded catches between the two countries were only 12 681 t in 2013.

Since 2000, Canadian TAC levels have been incrementally reduced. In 2012 and 2013 the TAC was 36 000 t, then reduced to 10 000 t in 2014 and again to 8 000 t in 2015-2016.

Reported Canadian landings between 2012—2015 have ranged from 4.1 to 7.4 thousand t, well below the TAC, with landings in 2015 being the lowest landings on record. However, an increase in landings was observed in 2016. The fishery was in fact closed in October 2016 as the TAC of 8 000 t was achieved (see table below).

*Table: Canadian Mackerel TAC and landings from 2000 to 2016 ('000s tonnes; * preliminary)*

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016*
TAC	100	75	75	75	75	75	75	75	75	75	40	40	36	36	10	8	8
Catch	16.0	24.4	34.7	44.7	53.8	54.6	53.6	53.0	29.7	42.2	38.8	11.4	6.5	7.4	6.4	4.1	8
% TAC caught	16	33	46	60	72	73	71	71	40	56	97	43	18	20	64	51	100

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Removals associated with the bait and recreational fisheries are not monitored and are known to be significant. Lack of information on these sources of catch is seen as one of the key uncertainties in assessing and managing the stock. An internet survey of recreational and bait use of Mackerel by fishermen was conducted in late 2016 which, when paired with a literature review to estimate past recreational and bait use, generated an estimate of the magnitude of undeclared Mackerel landings in the Atlantic region. This analysis indicated that total catches typically range from 1.5 to 2 times the declared catches. In January 2017, a new framework assessment model (censored statistical catch-at-age or SCA model) was developed to estimate total catch, using the internet survey and literature review to generate an upper limit on total catches and using declared landings as the lower limit. It is possible that the internet survey and literature review still underestimate total catch.

The minimum legal catch size is 26.3 cm and discarding of under-sized fish has been identified by Science as a concern. The extent and impact of these discards on the stock is hard to quantify.

The MSC certification of the Bay of Fundy, Scotian Shelf and Southern Gulf of St. Lawrence lobster fisheries requires a strategy to ensure that the mackerel bait fishery does not hinder the recovery and rebuilding of the Canadian mackerel stock.

Monitoring and assessment

Annual egg surveys in the southern Gulf of St. Lawrence are used for generating the abundance index. The abundance index from the egg survey, along with catch-at-age data from commercial samples, is used in the assessment model.

At the request of industry, the Province of Newfoundland committed funding towards a new egg survey in Area 3K (northeast coast of NL) in 2015 and 2016 to determine if there may be another significant spawning area for mackerel on the Canadian east coast. However, this study and a previous attempt to find additional significant spawning areas in 2009 did not show any sign of spawning activity and no new spawning areas have been discovered.

Science advice on stock status and removal rates

Advice on stock status

There is high certainty in the declining stock trend that was present in both the 2014 and 2017 assessment models, even though the models were different and the 2017 assessment model predicts a SSB of 40,000 t (a quantity 10-fold higher than in 2014, reflecting the improved estimates of catch, and the model's ability to handle uncertainty in catch).

The estimated SSB for the whole NW Atlantic Mackerel population including the American component is highly correlated to the SSB assessed from the Canadian assessment, indicating that the Canadian assessment (calibrated by egg densities in the Gulf) may be a good index of the SSB trend of the whole population.

In 2014, age-structure was reported as contracting - the 6 to 12 year-old age-classes and above had been lost from the population. In 2017, the age-structure has broadened slightly with more 5- and 6-year-old fish present, and there are some weak indications, based on commercial sampling data and industry observations, that there may have been a strong 2015 year class. However, more data are needed to confirm whether this has in fact occurred (e.g., the 2017 egg survey).

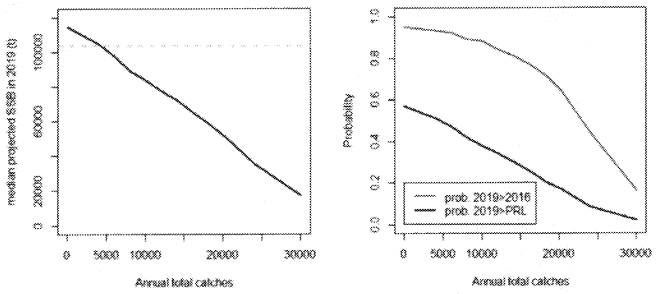
Limit Reference Point

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At a CSAS peer review in April 2014, Quebec region proposed a number of potential limit reference points (LRP) for Atlantic Mackerel following the assessment, but no single point was adopted. Regardless of the LRP applied, the SSB for the stock fell deep in the critical zone.

At the assessment framework meeting in January 2017, 40% B_{msy} was selected as the LRP, which was calculated to be 103,000 t.

Projections



In the 2017 assessment, mackerel stock was projected to have at least a 50% chance of recovery over the LRP by 2019 if total annual catches (declared and undeclared) were limited to 4,000 t or lower in 2017 and 2018. SSB was projected to have at least a 50% chance of increasing over current levels by 2019 if total annual catches were limited to approximately 23,000 t or lower in 2017-2018.

However, commercial TAC (declared catch) is a subset of total catches. Total catches are estimated to be at least 1.5 to 2 times higher than reported catches from the commercial fishery. This issue of unreported catches will be discussed with stakeholders in the context of the Atlantic Mackerel Advisory Committee on March 30, 2017.

Current views from stakeholders and external context

The Atlantic Mackerel Advisory Committee is concerned that reducing TAC levels would compromise future access if the stock is co-managed with the US in the future.

Industry view generally is that the Mackerel stock is in better shape than it is according to the DFO stock assessment; their experience fishing is that Mackerel abundance is not as low as it is estimated to be according to the assessment.

However it must be noted that Mackerel are schooling fish and stick to a narrow temperature range and therefore can be caught in large numbers even at low abundance. Because of this high degree of local aggregation, Mackerel are easy to deplete to very low levels and high abundance cannot be inferred from high catches in localized areas.

Some industry members are of the view that Mackerel is a "cyclical species", i.e. it has unpredictable strong year classes and a highly migratory nature, and therefore protection of the spawning stock is less critical. It is true that the spawner-per-recruit relationship for fish with a life history similar to Mackerel (short-lived early maturing fish) is typically weak – and that a good year-class can come from a small spawning stock biomass.

However, it must be noted that current low biomass levels are unprecedented and there is high uncertainty about how well the stock could recover from these low levels and even lower levels in the future. Also, the last few strong year classes have been quickly fished out as exploitation levels were very high, and thus did not have an opportunity to rebuild the stock.

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If fishing pressure were to be reduced, recovery could be relatively quick compared to a later maturing gadoid, for instance. Restraint in the short-term could potentially materialize into a healthy productive stock in 5—10 years.

In September 2014, Atlantic Mackerel was put on a priority list by the Marine Fishes subcommittee of COSEWIC in consideration for assessment by COSEWIC given the high rate of decline in the stock and the large discrepancy between the science advice and the TAC. As of February 2017 Mackerel is still on this list as a medium priority. The subcommittee will be tracking the status of Atlantic Mackerel to determine if it should be moved forward for assessment. If the species were to be assessed as at risk, the Department would be required to make a decision on whether or not to list the species under SARA.

International context

The Northwest Atlantic Mackerel stock overlaps with the American stock in US waters and with that come some considerations for the management of the fishery. The US fishery is prosecuted on a mixed component in the winter.

Atlantic Mackerel is currently managed by DFO in Canadian waters, and by NOAA in US waters. The US assessment includes both the Canadian and the American mackerel contingents (NAFO Subareas 3-6) because their fishery is conducted in winter at a time when Canadian mackerel is present in US waters.

At the last Canada/US joint stock assessment in 2010, there were differing views between the two countries on the stock status that were in large part due to the lack of a robust assessment model. Since then, Canada has completed three stock assessments in 2012, 2014, and 2017. The next US assessment is scheduled for fall 2017 and members of DFO Science will be present on the assessment working group.

There is Canadian industry support to resume work with the US on the joint stock assessment (currently planned for 2019). Collaboration on the science and management will be critical to rebuilding the depleted stock.

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ANNEXE 1

SOMMAIRE: ÉVALUATION DU STOCK DE MAQUEREAU BLEU DES SOUS-UNITÉS 3 ET 4

- Les débarquements commerciaux de maquereau bleu rapportés des sous-régions 3 et 4 de l'OPANO ont considérablement diminué au cours des dernières années. Entre 2005 et 2013, ils sont passés de 54 621 t à 8 663 t, pour atteindre 6 680 t en 2014 et 4 143 t en 2015. En 2016, le TAC de 8 000 t a été atteint.
- Les débarquements américains (commerciaux et récréatifs) des sous-régions 5 et 6 de l'OPANO ont aussi connu une baisse importante au cours des dernières années. Entre 2005 et 2012, ils sont passés de 43 220 t à 6 000 t et sont restés à ce niveau de 2013 à 2015.
- La problématique des prises non-déclarées a été examinée à l'aide d'une synthèse des données disponibles sur les besoins en appât et sur les pêches récréatives, ainsi qu'à l'aide d'un sondage en ligne auprès des pêcheurs. Les deux approches montrent que les prises totales peuvent atteindre entre 150 % et 200 % des prises déclarées, et que ce rapport varie selon les provinces et au cours du temps.
- Suite à son augmentation au cours des dernières années, la longueur à 50 % de maturité se maintient légèrement au-dessus de la longueur minimale de capture autorisée de 263 mm.
- La structure d'âge au sein de la pêche s'est considérablement rétrécie depuis les années 2000 suite à la disparition des poissons de plus de 7 ans. Cependant, on observe une légère amélioration depuis 2013, avec une hausse d'abondance des maquereaux d'âge 5 et 6.
- L'indice d'abondance issu du relevé des œufs dans le sud du golfe a atteint son niveau le plus bas en 2012 (14 568 t), puis a remonté lentement jusqu'à 52 667 t en 2016. Cette valeur reste très en deçà des indices d'abondance de plus de 750 000 t observés dans les années 1980.
- Un modèle statistique de prises à l'âge, dit « censuré », calibré par l'indice d'abondance des œufs et prenant en compte l'incertitude autour des prises non déclarées, confirme que la biomasse reproductrice du maquereau a décliné suite à des taux d'exploitation élevés et a atteint son minimum historique en 2012 (20 000 t). Selon le modèle, la biomasse en 2016 était de 40 000 t.
- Le Point de Référence Limite (PRL) pour ce stock est basé sur une approximation de $40\%B_{rms}$ à partir de $F_{40\%}$ tel qu'obtenu par une analyse de rendement par recrue. Suivant le modèle censuré, le stock se situe en 2016 à 40 % du PRL de 103 000 t.
- Des projections permettent d'estimer les risques associés à différents scénarios de capture. Étant donné que le stock se situe dans la zone critique, la capture totale (déclarées + non-déclarées) devrait être suffisamment faible pour favoriser le rétablissement.
- Il est particulièrement important de pallier aux lacunes dans l'échantillonnage de la pêche commerciale dans certains secteurs, d'accélérer la compilation des statistiques de débarquements et d'améliorer la collecte des données sur les prises non-déclarées.

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APPENDIX 1

SUMMARY: ASSESSMENT OF ATLANTIC MACKEREL STOCK IN SUBAREA 3 AND 4

- Reported commercial landings of Atlantic mackerel in NAFO subareas 3 and 4 have decreased significantly in recent years. Between 2005 and 2013, they decreased from 54,621 t to 8,663 t before reaching 6,680 t in 2014 and 4,143 t in 2015. In 2016, the TAC of 8,000 t was reached.
- US landings (commercial and recreational) in NAFO subareas 5 and 6 also decreased significantly in recent years. Between 2005 and 2012, they decreased from 43,220 t to about 6,000 t and have remained at that level from 2013 to 2015.
- The issue of unrecorded catches has been investigated using a review of available data on bait needs and recreational fisheries, as well as an online survey aimed at mackerel fishermen. Both approaches show that total catches can reach 150% to 200% of declared catches, and that this ratio varies among regions and years.
- Following its increase in recent years, the length at 50% maturity has remained slightly above the minimum authorized length of 263 mm.
- The age structure in the fishery has contracted considerably since 2000 following the disappearance of fish older than 7 years. However, a slight improvement has been observed since 2013, with an increase of mackerel of ages 5 and 6.
- The abundance index from the egg survey in the southern Gulf reached its lowest level in 2012 (14,568 t), then slowly increased to 52,667 t in 2016. This value remains far below the abundance levels of over 750,000 t observed in the 1980s.
- A "censored" statistical catch-at-age model, calibrated with the abundance index from the egg survey and taking into account the uncertainty due to unrecorded catches, confirms that mackerel spawning biomass has declined due to high exploitation rates and reached its historical minimum in 2012 (20,000 t). According to the model, the 2016 spawning biomass was 40,000 t.
- The Limit Reference Point (LRP) for this stock is a proxy of $40\%B_{msy}$ based on $F_{40\%}$ derived from a yield-per-recruit analysis. According to the censored model, stock abundance in 2016 was about 40% of the 103,000 t LRP.
- Model projections were used to quantify the risks associated with different catch scenarios. Considering that the stock is in the critical zone, total catches (declared + unreported) should be low enough to facilitate recovery.
- It is particularly important to fill gaps in the biological sampling of the commercial catch in some areas, to accelerate compiling of landing statistics and to improve data collection on unreported catches.

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Converting Mackerel Projections to TACs

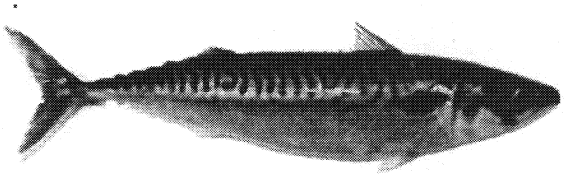
Total catches include both declared (commercial) and undeclared catches. In the past, total catches have been reported to range from approximately 150 to 200% of declared commercial catches. In other words, total catches are expected to be 1.5 to 2 times higher than reported catches but there is a lot of uncertainty associated to this number and this issue will be the subject of discussions with stakeholders in the context of the next Atlantic Mackerel Advisory Committee meeting scheduled on March 30, 2017.

The commercial TAC (Total Allowable Catch) is usually set for declared commercial catches only. The range of potential harvest levels presented below refers to total harvests. The column in red was added as additional information to illustrate what would be the commercial TAC if total catches would range from approximately 150 to 200% of declared commercial catches. This additional column will not be part of the SAR as there is a lot of uncertainty about this range. However, this will be part of the discussions with stakeholders and this information will be part of the context guiding the next TAC decision.

Potential TACs (if total = 150-200% of declared; t)	declared + undeclared catches (t)		2017		2018		2019		
	2017	2018	SSB (t)	Exp. Rate	SSB (t)	Exp. Rate	SSB (t)	prob. >2016	prob. >LRP
n/a	0	0	48,283	0.00	77,164	0.00	113,886	0.95	0.56
2,000 – 2,667	4,000	4,000	48,283	0.08	72,175	0.06	103,378	0.93	0.50
3,000 – 4,000	6,000	6,000	48,283	0.13	68,503	0.09	96,927	0.92	0.46
4,000 – 5,333	8,000	8,000	48,283	0.17	64,910	0.12	90,889	0.89	0.42
5,000 – 6,667	10,000	10,000	48,283	0.21	62,762	0.16	85,686	0.87	0.40
6,000 – 8,000	12,000	12,000	48,283	0.25	59,466	0.21	77,143	0.84	0.34
7,000 – 9,333	14,000	14,000	48,283	0.29	56,858	0.24	72,189	0.81	0.30
8,000 – 10,667	16,000	16,000	48,283	0.33	54,018	0.29	66,158	0.77	0.26
9,000 – 12,000	18,000	18,000	48,283	0.38	50,928	0.36	57,113	0.70	0.20
10,000 – 13,333	20,000	20,000	48,283	0.42	47,502	0.42	51,348	0.64	0.17
12,000 – 16,000	24,000	24,000	48,283	0.50	41,704	0.59	35,728	0.44	0.09
15,000 – 20,000	30,000	30,000	48,283	0.62	33,053	0.90	17,199	0.16	0.02

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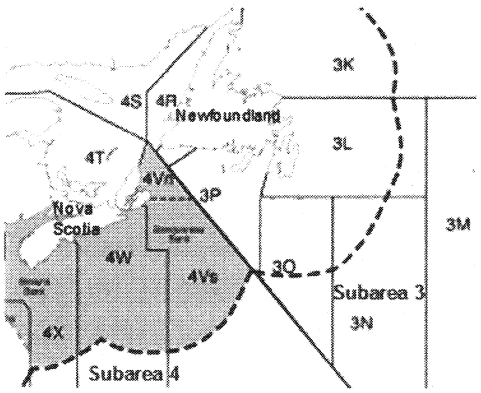
Northwest Atlantic Mackerel (subareas 3, 4)



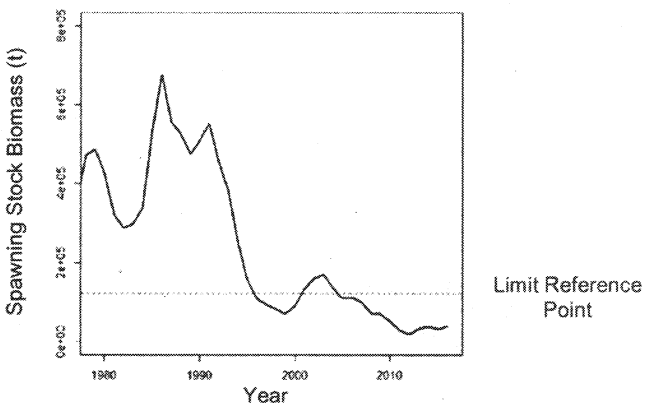
Precautionary Approach and Stock Status

- **PA zone:** critical
- Reference Points: LRP 40% B_{msy}, 103,000 t
- SSB (2017) estimated to be 40,000 t
- SSB (2012) was at lowest historical levels.
- Age structure has contracted, although signs of some recovery (more older fish) since 2013.
- On medium priority list by COSEWIC for consideration for assessment given high rate of decline in stock and discrepancy between science advice and TAC.
- Assessed March 2017 (CSAS report pending; last assessment SAR 2014/030).

NAFO subareas 3 and 4

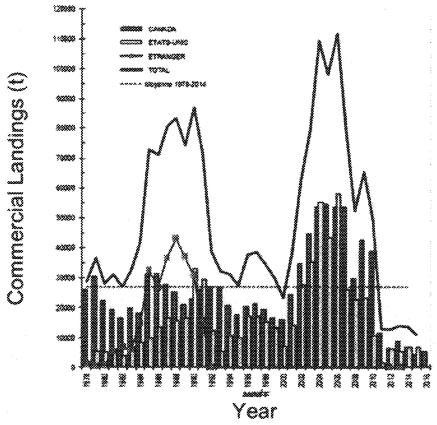


Biomass (2014 assessment)



- SSB has decreased in recent years.
- SSB calculated using a censored statistical catch-at-age SCA model to account for uncertainty in undeclared landings.

Landings (2014 assessment)



- **Fisheries Value:** ~$5 million
- **TAC:** 8,000 t (2016); **Landings:** Fishery closed 15 Oct. 2016 as TAC was reached
- Landings have decreased significantly and are very low relative to historic values.

Key Issues/Points

- Stock projections indicate a 50% chance of recovery over the LRP by 2019 if total annual catch is 4,000 t for 2017-2018. At a total catch of ~23,000 t, the stock has a 50% chance of continued growth over 2016 levels. However, total catches are estimated to be 1.5 to 2 times higher than reported catches. Issue of unreported catches to be discussed with stakeholders in March 2017.
- DFO scientists are collaborating with US NOAA to improve assessment of the shared stock and will participate in US assessment in Nov. 2017.
- Sources of uncertainty: unrecorded catches (bait and recreational fisheries) and discards of small mackerel. However, there remains high certainty that stock is in critical zone.

This sheet is for information only and is not meant to replace the original advisory document. Last modified: 2017-03-28

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s.21(1)(b)

Krohn, Martha

From: Marentette, Julie
Sent: April-13-17 2:53 PM
To: Krohn, Martha
Subject: Draft Science Advice Section for Mackerel Memo?

Categories: Red Category

Hi Martha,

I haven't seen too many Memos to the Minister – so here is my first draft for the Science Advice Section. I haven't vetted this through the region yet because I'm not sure if I'm hitting the right kinds of points here:

SCIENCE ADVICE

A stock assessment for Atlantic Mackerel was conducted March 8-9, 2017. It was estimated that unreported catches averaged approximately 6,000 t in recent years, in addition to commercial landings. This means that with a TAC of 8,000 t, total landings in 2016 were approximately 14,000 t. According to the assessment, Atlantic Mackerel spawning stock biomass has increased slightly since reaching a historical low in 2012. DFO Science has recommended that, because the stock remains in the critical zone, total catches (declared and unreported) should be low enough to facilitate stock recovery.

Modelled stock projections over a two-year assessment period (2017-2019) indicate that total landings of 16,000 t (10,000 t TAC and up to 6,000 t undeclared catches) [redacted] the Atlantic Mackerel spawning stock biomass would continue to increase in abundance. This corresponds to a high probability of growth (75-95%) according to DFO's Precautionary Approach decision-making framework.

DFO Science has also noted that improved data collection on unreported catches is a priority. [*EFM to specify what methods they decide to go with here*]

Best regards,

Julie Marentette, Ph.D.

Science Advisor, Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Julie.Marentette@dfo-mpo.gc.ca /Tel: 613-943-2098

Conseillère scientifique, Sciences des populations halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Julie.Marentette@dfo-mpo.gc.ca /Tél: 613-943-2098

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Krohn, Martha

From: Landry, Jean
Sent: April-13-17 11:22 AM
To: Marentette, Julie; Krohn, Martha
Subject: RE: Mackerel TAC Update

Categories: Red Category

Thanks Julie,

Please proceed with the writing of the Science advice section of the memo in collaboration with the region. If possible, I would like to validate the final text before it goes to EFM

About genetics, I am confused as Yves (this week) told me that we should try to fund a project on genetic but the info below seems to indicate that there is already one ongoing? Can I get more info about this ongoing project, and if any other activities could be put in place, I would like to know with a first ball-park figure of the costs.

Jean

Jean Landry

Director , Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Jean.Landry@dfo-mpo.gc.ca / Tel: 613-993-0029

Directeur, Sciences halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Jean.Landry@dfo-mpo.gc.ca / Tél. : 613-993-0029

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Canada

De : Marentette, Julie
Envoyé : 13 avril 2017 10:39
À : Krohn, Martha <Martha.Krohn@dfo-mpo.gc.ca>
Cc : Landry, Jean <Jean.Landry@dfo-mpo.gc.ca>
Objet : Mackerel TAC Update

Hi Jean and Martha,

UPDATE on EFM Positions: Post consultation with their DG, their suggested **TAC is 10,000 t** (this puts us in range of 14,000 to 16,000 t total catches, compliant with "high probability" of growth for both DFO PA and NAFO PA frameworks, given 4 to 6,000 t undeclared). This is likely to be a 1 year TAC only.

Their justification is that increased reporting and a few changes to licensing will result in a better and hopefully smaller estimate of undeclared catch for 2017, so that even though the TAC has slightly increased this will, from the perspective of the fish, be more of a roll-over in terms of total mortality.

EFM has requested that Science provide them with a draft of the Science Advice part of the memo, given that they have presented us with their TAC – I can draft this with regional Science input.

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3K Stock Source: There is considerable industry interest in the ongoing genetics (both FISH-NL and FFAW representatives were in Ottawa this week to speak with the Minister or MPs and EFM) and if the results Martin will obtain by early fall indicate that stock presence in 3K is largely fed by the European mackerel population, then there may be strong pressure for a mid-summer Science-Response type of activity to accommodate 3K (assuming, of course, that mackerel appear in this region in 2017 as per 2016). EFM has asked if these genetic results can be expedited – I will follow up with the region on this so they know what may be coming.

I've revised the TAC Considerations slides in light of this discussion (attached).

Best regards,

Julie Marentette, Ph.D.

Science Advisor, Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Julie.Marentette@dfo-mpo.gc.ca /Tel: 613-943-2098

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Julie.Marentette@dfo-mpo.gc.ca /Tél: 613-943-2098

From: Krohn, Martha
Sent: April-13-17 8:48 AM
To: Marentette, Julie
Cc: Landry, Jean
Subject: RE: mackerel genetic testing

Very interesting! Thanks for sharing.

From: Marentette, Julie
Sent: April-13-17 8:45 AM
To: Krohn, Martha
Subject: FW: mackerel genetic testing
Importance: High

FYI

Best regards,

Julie Marentette, Ph.D.

Science Advisor, Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Julie.Marentette@dfo-mpo.gc.ca /Tel: 613-943-2098

Conseillère scientifique, Sciences des populations halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Julie.Marentette@dfo-mpo.gc.ca /Tél: 613-943-2098

From: Cawthray, Jenness
Sent: April-13-17 8:36 AM
To: Marentette, Julie; Doniol-Valcroze, Thomas

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Subject: mackerel genetic testing
Importance: High

Hi Thomas,
Can you give me a status report/timeline on the genetic testing for mackerel? I believe you mentioned that mackerel was being testing from the 3k area so we can determine if it was from the Canadian stock or other (European). Did the sampling include the larger size mackerel (600g+).
Can you confirm the earliest when we will receive some preliminary results. We are wondering, if this is a different stock, could it be useful in determining our way forward on TAC and 3k in particular.
Thanks,

Jenness Cawthray
Senior Fisheries and Aquaculture Management Officer |
Agent principal, Gestion des pêches et de l'aquaculture
Fisheries and Oceans | Pêches et océans
200 rue Kent Street - 13S013 Ottawa, ON, K1A 0E6
Jenness.Cawthray@dfo-mpo.gc.ca
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Facsimile | Télécopieur (613) 990-7051
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EFM TAC Call

Date April 13/17

1-877-413-4788

[redacted]

Genetics Results: late summer / early fall
407 - adults from 3K

Brian - after discussion c Adam
- kind of a rollover
- encourage reporting
- some of changes in s. Gulf will help eliminate some uncert
- if fish don't show up in 3K, could still get closed by 4R but will change timing by a few weeks
- NL hadn't had 1t catch since 2010
- Big interest in 3K (European vs Canada)
- 60:40 split was put on table (AMAC)
  - ↳ depends on TAC level
  - ↳ FFAW was happy c current
  - ↳ Bill - if we don't catch, happy to share
- would we provide >60% to inshore?
  - → court case Bill says industry decision
  - → IFMP does not define this
- can we close one fleet at a time?

Pierre - not clear cannot close <45 mobile

May 2017

Page

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Date

Enn - 2 schedules (fixed + mobile)
- we can do these separate or together

Brian - 50% TAC cap
- could close fishery?

Christa - freq. of monitg, need to discuss w RDB
- dockside + hails more difficult
- timing + cost

Brian - ~~FFATA~~ FISH-NL brought up 3K fish visual differences
- if fish don't go to 3K, then fishery lasts longer
- vessel class thing - open + close
- apportionalize 60:40
- will be consulting w industry
- so TAC = 10,000 w undeclared
- want to encourage reports
- won't make industry fully happy
- but follows dept'l mandate
- NOOs not happy but this still protects fish

→ what if it turns out 3K fish are European? pressure to deal w by NL
→ what if partially European?

Page

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Date

★ → need call ∟ regional Science mid-season SR??

FFAW spoke to Minister as well

Christa - we can freeze eddy geer types + more licenses

⇒ Memo paragraph (-SA)

To discuss w Martin

- How many Samples?
- Who is collaborated
- How is this funded?
- Anything that can be added → ballpark costs

→ mid year SR — beg plant samples
→ 3K may need different rules

May 2017

Page

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s.19(1)

s.21(1)(b)

Marentette, Julie

From: Doniol-Valcroze, Thomas
Sent: April-13-17 2:48 PM
To: Marentette, Julie
Subject: RE: Mackerel Science briefing material

Julie,

I realize that I haven't answered you on this. [redacted] I don't need you to go over it beforehand. Perhaps one point to emphasize, indeed, is that the initial way of using the 150-200% may not the best because at high TACs it will yield unrealistically high undeclared amounts, and thus it is better to use absolute number (e.g. 6,000t). I now wish we had made that clearer at the assessment and in the bullets, but this is a new approach for everybody and so we are all learning how to best use it and present it as we go along.

Talk to you on Tuesday. Happy Easter week-end.

Thomas

De : Marentette, Julie
Envoyé : 10 avril 2017 14:43
À : Doniol-Valcroze, Thomas
Objet : FW: Mackerel Science briefing material

FYI for the ADM briefing next week – you may already have this information. The extra column in the "Projections to TACs" document was to explain what was meant by 150-200% and this was put together before we spoke of the 6,000 t undeclared average (which is an easier way to express recent trends in undeclared anyways).

Please let me know if you'd like me to go over what I'm going to say with you beforehand or if the slides are enough!

Best regards,

Julie Marentette, Ph.D.

Science Advisor, Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Julie.Marentette@dfo-mpo.gc.ca /Tel: 613-943-2098

Conseillère scientifique, Sciences des populations halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Julie.Marentette@dfo-mpo.gc.ca /Tél: 613-943-2098

From: Krohn, Martha
Sent: March-28-17 2:43 PM
To: Swerdfager, Trevor
Cc: McPherson, Arran; Landry, Jean; Marentette, Julie
Subject: Mackerel Science briefing material

Hello Trevor,

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Please find attached Mackerel briefing material

1) Mackerel 101
2) Mackerel one pager fish profile
3) Briefing deck
4) Projection table for risks associated with different catch levels
5) Approved bullets from the March 2017 stock assessment (which you have already received from Quebec)

These have all been reviewed by Jean and Arran.

We would be happy to provide you a briefing, especially given complexities with the TAC options and the issue of unreported catches.
The advisory meeting (AMAC) will take place Thursday in Halifax, and the TAC discussions will presumably follow shortly. (EFM is aiming for a final decision end of April).

Thanks you so much to Julie for producing this material!

Martha

Martha Krohn

National Manager, Fish Population Science
Fisheries and Oceans Canada / Government of Canada
martha.krohn@dfo-mpo.gc.ca/ **Tel: 613-998-4234 new number**

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Sciences des populations halieutiques
Pêches et Océans Canada / Gouvernement du Canada
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Martha Krohn

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Patterson, Pauline

De: Rivierre, Antoine
Envoyé: April-13-17 11:40 AM
À: Boudreau, Suzie; Gros-Louis, Denis
Objet: Mise à Jour : Discussions TAC maquereau_appel National

Importance: Haute

Bonjour.
Je viens d'avoir un appel avec l'administration centrale concernant le mémo pour le TAC du maquereau.
Adam Burns va apporter les recommandations suivantes à l'appel national en début de semaine prochaine :

- **TAC de 10 000 tonnes + captures non déclarées.**
- Consultation de l'industrie en cours de saison lorsque 60 % du TAC sera atteint pour valider leur position par rapport au partage 60/40 entre les bateaux 65' et les +65'
- Réévaluation du TAC en cours de saison si les résultats de l'analyse génétique révèlent que les poissons capturés dans 3K (Est-de Terre-Neuve) proviennent de la population européenne.

Position de la région du Québec

- Il est donc nécessaire d'encourager fortement l'industrie à déclarer ses captures pour **réduire significativement la quantité de maquereau non déclarée** et atteindre nos objectifs de conservation.(en 2016 on estime que les captures non déclarées représentaient 6000 tonnes)
- Concernant le partage 60/40, le Québec n'est pas directement concerné par cette mesure, car nous n'avons pas de bateau de +65'
- Concernant la réévaluation du TAC en cours de saison pour 3K, il est important d'avoir des **discussions préalables avec les sciences pour établir différents scénarios en fonction des résultats génétiques**. Que fait-on si il y a un mélange 50%-50% dans 3K entre la population canadienne et la population européenne ?

Antoine Rivierre

Agent régional principal,
Espèces pélagiques, mammifères marins
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Thomas, Tashina

From: Mallet, Pierre
Sent: April-13-17 3:09 PM
To: Thomas, Tashina; Gaudet, Mario
Subject: FW: Bait

From: Waters, Christa
Sent: April-13-17 10:52 AM
To: Mallet, Pierre; Rivierre, Antoine; Dunne, Erin; Lester, Brian; Cawthray, Jenness
Subject: Bait

Hello,

I just checked MPFR's, AFR's and FGR's for bait. Nothing says that we are not allowed to put a temporary freeze.

The CFLP chapter 3 does say a tiny bit about bait:

file:\\http://www.dfo-mpo.gc.ca/fm-gp/policies-politiques/licences-permis/ch3-eng.htm

(5) **A *bait-fishing licence*** may only be issued to the head of an enterprise who holds a licence to fish commercially by a method which traditionally includes the use of bait in such a fishery, (i.e., lobster, crab, groundfish hook and line, tuna, swordfish longline, shark).

(11) The following licences may not be issued as replacement licences to another fisher:

1. (a) category B lobster licences;
2. (b) exploratory licences;
3. (c) herring fixed gear licences where vessels 15.2m (50') LOA and over are used (Gulf Sector of the Maritimes Region);
4. (d) salmon;
5. (e) groundfish licences (including handlines) held by heads of non-core enterprises that are not pre-79 corporations;
6. (f) special groundfish gillnet licences for Canso Area;
7. (g) temporary tuna licences in the Newfoundland Region;
8. **(h) bait-fishing licences;**
9. (i) mackerel handline licences;
10. (j) scallop licences for Areas 12, 13 and 14 which are held by the head of a non-core enterprise.

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Williams, Patricia

From: Dunne, Erin
Sent: April-13-17 11:29 AM
To: Perry, Jacqueline
Cc: Blanchard, Tony; Williams, Patricia
Subject: mackerel

Jackie,

Brain met with Adam yesterday on mackerel. The TAC currently under review is 10000t plus 4000 to 5000t for undeclared catch. It is an increase from 2016 but far from the FFAW's recommendation of 36000t. A geneticist in Spain should have the results from the 3K samples by late summer. If the fish found in 3K is of European origin and the fish return to 3K this fall then we may have the ability to have an in-season review and possibly a quota adjustment. Should the fish be of mixed Canadian-European or Canadian origin an in-season review would likely not occur. There may be an AMAC call once 50% of the quota is taken to review access for the >65' fleet.

Erin

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Erin Dunne
Resource Manager, Pelagic & Freshwater | Gestionnaire des ressources, Pêches pélagiques
Fisheries Management | Gestion des Pêches
Newfoundland & Labrador Region
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FAX | Téléc: 709-772-2659
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Waters, Christa

From: Waters, Christa
Sent: April-13-17 11:00 AM
To: Berthier, Jacinta; Wentzell, Doug
Cc: Docherty, Verna (Verna.Docherty@dfo-mpo.gc.ca)
Subject: Mackerel Recommendation going to Minister

Hello,

Just had another call on Mackerel. The recommendation going forward on TAC is 10,000 mt for the commercial fishery. This is an increase of 2,000 mt from last year. There are other recommendations going in the BN as well, but nothing too controversial as far as I can tell. We can discuss further if you would like.

We will be given a chance to comment on the BN early – mid next week. It will be discussed on your Monday/Tuesday morning call.

Christa

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s.16(2)

Blewett, Catherine

From: Blewett, Catherine
Sent: April-14-17 10:45 AM
To: Walker-Sisttie, Rhonda; Hopkins, Lillian; Lamar, Anne; Stringer, Kevin
Subject: Re: MM - News Release: FISH-NL Protest

Perfect. Thanks so much R. Really appreciate that.

Sent from my BlackBerry 10 smartphone on the Rogers network.

From: Walker-Sisttie, Rhonda
Sent: Friday, April 14, 2017 11:05 AM
To: Blewett, Catherine; Hopkins, Lillian; Lamar, Anne; Stringer, Kevin
Subject: Re: MM - News Release: FISH-NL Protest

Hi there, yes we are keeping them apprised. R

Rhonda Walker-Sisttie
613-990-0219

From: Blewett, Catherine
Sent: Friday, April 14, 2017 9:45 AM
To: Hopkins, Lillian; Walker-Sisttie, Rhonda; Lamar, Anne; Stringer, Kevin
Subject: Fw: MM - News Release: FISH-NL Protest

Fyi

The latest from Nfld. Rhonda - pls ensure PCO comms in the loop.

Thxs

Sent from my BlackBerry 10 smartphone on the Rogers network.

From: Anderson, Kevin <Kevin.Anderson@dfo-mpo.gc.ca>
Sent: Friday, April 14, 2017 10:43 AM
To: Blewett, Catherine
Cc: Hopkins, Lillian; Lapointe, Sylvie
Subject: Fw: MM - News Release: FISH-NL Protest

Fyi.

Sent from my BlackBerry 10 smartphone on the Bell network.

From: Boriel, Michele <Michele.Boriel@dfo-mpo.gc.ca>
Sent: Friday, April 14, 2017 11:08 AM
To: XNFL-RMC
Cc: XNFL-Group, All Communications
Subject: MM - News Release: FISH-NL Protest

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Richard Gillett enters Day 2 of hunger strike: 'If I can't fish, I'm no good to no one'

FOR IMMEDIATE RELEASE—Friday, April 14th, 2017

Richard Gillett, an inshore fish harvester from Twillingate and Vice-President of the Federation of Independent Sea Harvesters of Newfoundland and Labrador (FISH-NL), began a hunger strike Thursday afternoon on the grounds of DFO's NL headquarters in St. John's.

Gillett's demands include: a meeting with the federal Minister of Fisheries and Oceans, Dominic LeBlanc, and his assurance of an independent review of DFO science/management; as well as an independent review of the relationship between DFO and the Fish, Food and Allied Workers (FFAW) union.

"Enough is enough," says Gillett, "This is a desperate situation that needs to be looked into right now. The industry is in the worse mess it's ever been in," says Gillett, who's been drinking only water since Thursday afternoon.

"DFO science has been gutted and the management system we have today, when most of our fisheries are in crisis, is the same one that we had back in '92 when the cod moratorium came down. And the FFAW, which is supposedly our union, stopped standing up for fishermen long ago and got in bed with DFO."

"If I can't fish I'm no good to no one. I'm no good to myself. I'm no good to my family. I'm no good to my friends. I was meant to fish."

On Tuesday, April 11, Gillett, along with Ryan Cleary, President of FISH-NL, travelled to Ottawa and met with five of NL's Liberal MPs, including: Gudie Hutchings, Yvonne Jones, Ken McDonald, Scott Simms and Nick Whalen. The MPs called the meeting to discuss the current fisheries crisis.

Below is a copy of FISH-NL's presentation — which makes 10 specific recommendations covering all fisheries. Among them is a recommendation that commercial inshore harvesters be permitted to keep **ALL** bycatch caught with hook and line and gillnets, and another that DFO allow flexibility in this year harvesting rules, including allowing harvesters to buddy up on the water.

-30-

FISH-NL's presentation to federal MPs

Posted by Ryan Cleary on April 14, 2017

On Tuesday, April 11, FISH-NL made a presentation to the province's federal Liberal caucus in Ottawa, including recommendations on how to deal with the current fisheries crisis.

The presentation was made by Ryan Cleary, President of FISH-NL, and Richard Gillett, Vice-President. Included is a recommendation that commercial inshore harvesters be permitted to keep **ALL** bycatch caught with hook and line and gillnets, and another that DFO allow flexibility in this year harvesting rules, including allowing harvesters to buddy up.

FISH-NL presentation to NL's federal Liberal caucus

7 p.m., Tuesday, April 11, 2017

Ottawa, Ontario

The crisis facing Newfoundland and Labrador's inshore fishery today is unprecedented, and in many ways worse than the collapse of groundfish stocks in the early 1990s.

Twenty-five year ago (this is the 25th anniversary of '92 northern cod moratorium) inshore fish harvesters around the province turned to other species such as crab and shrimp to make up for the collapse of groundfish.

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But stocks of most commercial species in waters around Newfoundland and Labrador are on the decline or remain delicate in terms of rebuilding.

The northern shrimp quota in waters off the Great Northern Peninsula and southern Labrador (the fishing zone most inshore harvesters are most reliant on) was slashed in March by 62.6 per cent — to 10,400 tonnes this year from as high as 48,000 tonnes two years ago. (The inshore sector in Area 6 is only entitled to 7,239 of the 10,400-tonne quota.) Bankruptcies are imminent and harvesters are getting desperate.

The total allowable catch for snow crab is also down 22 per cent compared to 2016. The biggest hit area is fishing zone 3L, east of the Avalon Peninsula, where the bulk of the quota is harvested. The quota there has been cut by 26 per cent, down to less than 25,000 tonnes. In fishing zone 3K, the crab quota has been cut roughly 80 per cent over the past decade.

Areas such as Newfoundland's south coast (fishing zone 3Ps) have experienced a collapse of crab and lobster stocks. The cod quota there is also expected to be cut in the coming weeks (from 13,000 tonnes to less than 7,000 tonnes). Harvesters there say they're at death's door.

While northern cod is showing signs of improvement and some harvesters are calling for increased quota (scientists, meantime, still classify the stock as "critical"), the price per pound last year averaged 60 cents — not enough to help harvesters transition from shellfish to groundfish.

Inshore harvesters are buried in bureaucracy and fees.

The NL fishery is at a breaking point and the primary reason is the Government of Canada's gross mismanagement.

While the decline in northern shrimp is seen as more of an environmental consequence than a result of overfishing, DFO has a responsibility to effectively manage the fisheries and their cyclical nature.

It has failed to do so.

DFO science has been gutted by years of budget restraint under successful Liberal and Conservative administrations.

The true testament of DFO's management success must be the health of fish stocks, as well as the Department's understanding of the overall ecosystem.

The Department has been a complete and utter failure in both regards.

As one harvester from the Great Northern Peninsula put it: "Another generation, another resource, and the same old song and dance."

FISH-NL RECOMMENDATIONS:

1. Given the dire circumstances facing much of the NL fishery, FISH-NL recommends that commercial inshore harvesters be permitted to keep **ALL** bycatch caught with hook and line and gillnets.
2. FISH-NL recommends that DFO introduce flexibility in this year harvesting rules. DFO can't magically produce more fish, so the Department must do all it can to make it easier for harvesters to get through the current crisis and keep their heads above water. FISH-NL recommends DFO implement a buddy-up pilot project to help harvesters cut down on expenses. Such a project would cap the number of buddy ups at two, and be restricted to licence holders who actually fish. Buddying up (or joint ventures) would be permitted between fleets and between harvesters in different fishing zones.
3. DFO must review the numerous federal fees charged to inshore harvesters with an eye to immediately reducing them, and cutting costs to harvesters.
4. FISH-NL recommends an immediate ban on all offshore factory-freezer trawlers fishing groundfish in Canadian waters. The principles of adjacency and historical attachment were adopted by the federal government in eliminating the Last-in, first-out policy in the northern shrimp fishery. Those principles must be carried over to all fisheries off Newfoundland and Labrador so that the primary beneficiaries of the resource are coastal

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communities and inshore harvesters who live there. Further, all foreign quotas of species such as turbot caught inside Canadian waters should be available to the inshore fleet to catch — not just the offshore sector.

5. FISH-NL recommends the federal government initiate an independent, external review of the management/science capabilities of the federal Department of Fisheries and Oceans in relation to the dramatic decline of key stocks off Newfoundland and Labrador.
   Crab, shrimp, caplin, and south coast cod are all said to be in simultaneous free fall, if not outright collapse, and the common theme is DFO (mis) management. Decades of cuts by federal Conservative/Liberal administrations have left DFO a shadow of its former self. As scientists retired they weren't replaced, and stock assessments often weren't carried out because of the decrepit state of the Canadian Coast Guard fleet. DFO also appears prepared to contract out its constitutional responsibilities for fisheries management — as outlined under the Terms of Union with Canada — to groups such as the FFAW/WWF, which in December 2016 revealed a rebuilding plan for northern cod. Rebuilding plans are the sole responsibility of DFO, which, again, has failed spectacularly in its constitutional responsibility. Too many East Coast fisheries have failed over too many years while fisheries elsewhere in the world have collapsed and rebounded. That hasn't happened here. Why?
6. The Northwest Atlantic Fisheries Organization must be disbanded, with Canada taking custodial management of the Nose and Tail of the Grand Banks and the Flemish Cap. NAFO's mandate includes most fishery resources outside Canada's 200-mile limit, but the organization is toothless, unable to enforce the quotas it sets. NL's inshore harvesters say they are growing fish stocks inside Canadian waters for foreign trawlers to harvest outside. The NL fisheries will never rebound so long as DFO management/science remains weak, with an even weaker management/enforcement regime governing migratory stocks in international waters.
7. Canada must take immediate action to control the burgeoning seal herds off the East Coast. As late as March 29th, John Brattey, a scientist with DFO, was publicly questioning the diet of harp seals. The fact that in 2017 federal scientists are still scratching their heads over the diet of the millions of harp seals off NL's shores is unbelievable — and a complete condemnation of the Government of Canada's commitment to rebuilding East Coast fish stocks. Inshore harvesters have collected information on the contents of seal stomachs for upwards of 20 years (data paid for by the federal government), raising the question of what's happened to that information? FISH-NL recommends the federal government formulate a plan to reduce the seal population, at the same time that it strengthen marine science and the study of the overall North Atlantic ecosystem.
8. FISH-NL has called for an immediate halt to the fishing of northern shrimp by factory-freezer trawlers in Shrimp Fishing Area (SFA) 6, the waters off Newfoundland's northeast coast and southern Labrador that inshore shrimp harvesters are most reliant on. In light of the severe cut to the Total Allowable Catch of northern shrimp in SFA 6, FISH-NL requests that the federal government reserve the limited quota solely for the inshore fleet, and ban fishing altogether when shrimp are spawning. Further, FISH-NL requests that Ottawa assign a quota of northern shrimp to the inshore fleet in SFA 5 further north off Labrador. Priority must be given to the inshore harvesters of Newfoundland and Labrador — the economic pillars of our rural communities adjacent to the northern shrimp resource.
9. Given the state of today's fisheries, harvesters will be pushing the limits in terms of chasing species further out to sea. The minimum boat size should be increased to 44'11 from 39'11 to allow harvesters safer vessels if they so choose. Harvesters licensed to fish should be able to do so safety. Also, vessel length regulations should be standard across Atlantic Canada. Why is it that every other province can have a stern extension while DFO NL region is proposing to eliminate it?
10. FISH-NL recommends that DFO consider in-fleet rationalization. The maximum number of combinable licenses must be increased to allow fishers to have a profitable enterprise. This would allow harvesters who have little to get out, and allow those who choose to stay to have something to catch, while at the same time costing government nothing. Such a move must be done in such a way as to not jeopardize the owner operator, fleet separation policy.

FISHING ZONE 3Ps

1. FISH-NL recommends a 10,000-tonne index cod fishery. The first 10,000 tonnes of the quota off the south coast must be the **exclusive** jurisdiction of the inshore fishery. DFO science has recommended a cut in the 3Ps cod quota, which was set at 13,000 tonnes in 2016 (although only 7,000 tonnes were caught). In 2015, just 42 per cent of the cod quota was caught. It's expected that this year's quota will be set below 7,000 tonnes. When the cod fishery was reopened in 3Ps in 1997 the first 10,000 tonnes were reserved for the inshore. Offshore trawlers were not permitted access.
2. FISH-NL recommends a 250-tonne halibut quota. 2015 was the first year there wasn't a directed halibut fishery in 3Ps, as most halibut was caught by larger vessels, the majority from outside the province. FISH-NL also recommends reinstitution a year-round halibut bycatch **BACK** to 10 per cent.

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3. FISH-NL recommends inshore scallop harvesters be granted access to all three beds on the St. Pierre Bank. Harvesters are currently restricted to fishing on the northern scallop bed. They want permission to once again fish in the other two areas — the Southern and Middle beds. Those beds have been reserved for the offshore fleet from Nova Scotia since 2006, when — upon the recommendation of David Hooley — the federal Department of Fisheries and Oceans implemented fleet separation for sea scallops.
4. FISH-NL recommends DFO issue more fishing permits for sea cucumbers on the Southern and Middle beds of the St. Pierre Bank. Harvesters would like to see more permits issued, but with conditions. In order to make a permit a permanent licence a harvester must have fished sea cucumbers for two consecutive years, with a minimum number of pounds landed.
5. Ottawa must compensate Placentia Bay lobster fishermen for catching green crab, an invasive species brought into the area by oil tankers. Green crab has been eating small lobster and seagrass, habitat for the lobsters. Lobster have practically disappeared from Placentia Bay.
6. The minimum length of herring must be reduced to 9.5 inches from 9.75. The tolerance for undersized is currently 10 per cent, which should be increased to 15 per cent.
7. FISH-NL supports an enterprise buyout for 3Ps fishing licences, reducing the number of active harvesters. Any such buyout program should be overseen by a government agency — not a union. FISH-NL must be given an opportunity to consult with its 3PS membership and offer advice on the criteria for eligibility, the approval process details, and methodology for determining enterprise value. Harvesters in 3Ps say two-thirds of the under 40-foot fleet should be bought out (over 200 harvesters in Placentia Bay alone), and one-third of the supplementary, over 40-foot fleet.
8. The fixed gear inshore fleet in Fortune Bay must be allowed to use tuck seines in the herring fishery (the same as they're permitted in the mackerel fishery), and the same as other fleets around the province.

FISHING ZONE 4R

1) The 4R crab fleet (the western side of the Great Northern Peninsula) requests access to Area 13 in the Strait of Bell Isle. The area is primarily reserved for crab harvesters from Quebec, even though the area is immediately adjacent to NL communities in area 4R. NL harvesters want access to the area that was there's to start with. Also, NL harvesters in Area 12 pay DFO a fee for their licence IQ of $137 a tonne, vs. $95 a tonne by Quebec harvesters in Area 13, and $87 a tonne in area 14. Why the discrepancy in federal fees in different areas?

FISHING ZONE 3K

FISH-NL supports an immediate return to the spring herring fishery in 3L. DFO decided recently to eliminate the spring fishery in 3L upon the request of the FFAW.

ODDS AND ENDS

• The cod quota on the Flemish Cap has apparently been set at 15,000 tonnes, but only 200 tonnes has been set aside for Canadian harvesters, who are desperate for fish.

• During a recent NAFO meeting in Vigo, Spain, representatives of the Canadian offshore sector apparently lobbied for an increase in the turbot quota. **The inshore sector is quite capable of fishing turbot, and Canada only reportedly fishes 7 per cent of the entire quota.** The inshore requests a turbot quota. Inshore harvesters should also permitted to keep their turbot caught above their quota. Regulations state that turbot caught in excess of the quota must be discarded when the fish is dead. FISH-NL requests turbot harvesters be allowed to bring in whatever is caught in their nets.

• The east coast otter trawl fleet is looking for redfish in fishing zone 3L. While NAFO has increased the quota, the fleet had asked for access to redfish but was denied.

• Factory-freezer trawlers are built overseas tariff free (as are all vessels over 30 metres). One inshore harvester signed a contract to have a 27.4-metre vessel built overseas. The contract is 40 per cent cheaper than having the ship build in Canada, but subject to a 25 per cent tariff — which is discriminatory to the inshore sector.

• In NL, a harvesters must have a boat registered in their name for a minimum of 12 months, meaning they cannot lease a boat to another harvester. That doesn't make sense with most boats tied up for 80 per cent of the year. In all other provinces, harvesters can lease a registration for 30 days. FISH-NL recommends that DFO begin to institute "East Coast policy" that's uniform to all Atlantic provinces and quebec.

• FISH-NL recommends DFO institute a 36,000-tonne Atlantic-wide mackerel fishery for 2017. Last year's quota was set at 8,000 tonnes. It's also recommended that DFO undertake study to determine whether mackerel is genetically connected to the Norway/Greenland/Iceland stock.

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s.16(2)
s.19(1)

Krohn, Martha

s.21(1)(b)

From: Landry, Jean
Sent: April-18-17 6:15 PM
To: Krohn, Martha
Cc: Marentette, Julie
Subject: Fw: Considerations for Atlantic Mackerel - international engagement

Categories: Red Category

Fyi

Sent from my BlackBerry 10 smartphone on the Rogers network.
Original Message
From: de Lafontaine, Yves <Yves.deLafontaine@dfo-mpo.gc.ca>
Sent: Tuesday, April 18, 2017 5:49 PM
To: Davison, Karen
Cc: Landry, Jean
Subject: RE: Considerations for Atlantic Mackerel - international engagement

No, we haven't discussed anything specific, but Trevor simply asked me to forward some information and let you know about this Canada-US issue [redacted] I suspect Trevor will contact you eventually.

Yves de Lafontaine

Directeur, Institut Maurice Lamontagne
Directeur, Direction régionale des Sciences Pêches et Océans Canada / Gouvernement du Canada
Yves.delafontaine@dfo-mpo.gc.ca Tél. : 418-775-0555 / tél. cell. : [redacted]

Director, Maurice Lamontagne Institute
Director, Sciences regional directorate
Fisheries and Oceans Canada / Government of Canada Yves.delafontaine@dfo-mpo.gc.ca Tel : 418-775-0555 / Cel. : [redacted]

-----Message d'origine-----
De : Davison, Karen
Envoyé : 18 avril 2017 17:47
À : de Lafontaine, Yves <Yves.deLafontaine@dfo-mpo.gc.ca> Cc : Landry, Jean <Jean.Landry@dfo-mpo.gc.ca> Objet : RE: Considerations for Atlantic Mackerel - international engagement

Thanks for this Yves. Not sure whether you and Trevor chatted about coming forward with this item for discussion at the tentatively scheduled DFO-NOAA [redacted] meeting in the early Fall...this is a possible venue to increase collaborative science efforts in this domain. I'll keep it in my back pocket.

Karen

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s.16(2)

-----Original Message-----
From: de Lafontaine, Yves
Sent: April-18-17 5:40 PM
To: Davison, Karen
Cc: Landry, Jean
Subject: Considerations for Atlantic Mackerel - international engagement

Karen

Upon the advice from our ADM-Sciences, I forward you (in attachment) some information and general documents about the Atlantic mackerel, a transboundary fish species assessed by the Quebec region. The resource is currently in a critical state with very low abundance and there is need for stronger action to protect it from possible overexploitation. This stock is also managed by our US counterpart (NOAA) and we're aiming at developing stronger relationships with US partners to improve our global undertanding and management strategy of the stock. The ADM-Sciences was briefed earlier today about the status of the stock and the need for international collaboration.
At this stage, I simply wish to inform you about the situation, in case you may be required to provide some input from an international engagement perspective.

Feel free to contact me whenever need.

Yves de Lafontaine

Directeur, Institut Maurice Lamontagne
Directeur, Direction régionale des Sciences Pêches et Océans Canada / Gouvernement du Canada
Yves.delafontaine@dfo-mpo.gc.ca Tél. : 418-775-0555 / tél. cell. : [redacted]

Director, Maurice Lamontagne Institute Director, Sciences regional directorate Fisheries and Oceans Canada / Government of Canada Yves.delafontaine@dfo-mpo.gc.ca Tel : 418-775-0555 / Cel. : [redacted]

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Mackerel Discussion - ADM offices Date April 18/16

JS - catch - charter - approximately catch

Karin Davidson International Partnerships

- modest catch rates
- conversation around dosy

- slowly creeping up since 2012

- FFAW + DFO collab to get 13K samples
- no record of small fish in GSL
  - no evidence of stranger

May 2017

002241

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Beamish, Kayla

From: Lester, Brian
Sent: April 18, 2017 10:11 AM
To: Beamish, Kayla
Subject: Re: Q - mackerel

That is still the current plan...at least for now.

Sent from my BlackBerry 10 smartphone on the Rogers network.

From: Beamish, Kayla
Sent: Tuesday, April 18, 2017 10:09 AM
To: Lester, Brian
Subject: RE: Q - mackerel

Ah nevermind – remembered your email from Thursday. Is this still the plan?

May 1 (tentative): Decision on the TAC and other management measures for the Atlantic mackerel fishery for 2017.

From: Beamish, Kayla
Sent: April 18, 2017 10:01 AM
To: Lester, Brian
Subject: Q - mackerel

Hi Brian,
Will still be getting in touch today about mackerel details – but for now just wondering when you anticipate the TAC announcement?

Thanks!
Kayla Beamish
Communications Advisor / Conseillère principale en communications
613-993-1512
Fisheries and Oceans Canada / Pêches et océans Canada
200 rue Kent Street, Ottawa, ON K1A 0E6
Follow us on Twitter: @DFO_MPO | Suivez-nous sur Twitter : @MPO_DFO

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s.21(1)(b)

Krohn, Martha

From: Castonguay, Martin
Sent: April-19-17 2:37 PM
To: Doniol-Valcroze, Thomas; Krohn, Martha
Cc: Marentette, Julie
Subject: RE: mackerel memo

Categories: Red Category

Large abundance of mackerel in 3K has been seen before but previous such occasions were always when the stock was abundant, which is not the case now. This coupled with the presence of age 0 mackerel in 3K makes me wonder what is going on there. Genetic/genomic results will be quite interesting to say the least.

Martin

De : Doniol-Valcroze, Thomas
Envoyé : 19 avril 2017 14:29
À : Castonguay, Martin; Krohn, Martha
Cc : Marentette, Julie
Objet : RE: mackerel memo

Hi,

One issue that I see and that Martha has mentioned is that genetic results are rarely black or white. And even if some individual samples from 2016 were clearly shown to be of a different stock origin (for the sake of argument, let us assume that 50% of our samples are from a different stock), this raises two questions:

1) is the proportion in our samples representative of the real mixing? (if samples were all collected at the same time and place, it probably isn't); what is our uncertainty around this proportion? How do we translate it into a TAC change?

2) do we automatically assume that this proportion from 2016 samples applies to future years? If so, why? Based on what we know of mackerel movements and variability, it might be a very dangerous assumption. It would take a long-term analysis of several years to identify patterns among years.

On one hand, the industry's concern about this is legitimate and I understand why they would want us to act quickly, but on the other hand I think we should be cautious about making promises on this. If indeed the 3K catch is of mixed origin, I doubt that this will be a straightforward process.

Thomas

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s.16(2)(c)
s.21(1)(b)

De : Castonguay, Martin
Envoyé : 19 avril 2017 14:17
À : Krohn, Martha; Doniol-Valcroze, Thomas
Cc : Marentette, Julie
Objet : RE: mackerel memo

Hi Martha,

[redacted]

I did write to Naiara on Thursday asking her if DFO could help financially such we could get genetic results earlier but she hasn't answered yet.

Martin

De : Krohn, Martha
Envoyé : 19 avril 2017 14:11
À : Castonguay, Martin; Doniol-Valcroze, Thomas
Cc : Marentette, Julie
Objet : RE: mackerel memo

Hi Thomas and Martin,
EFM was asking about the timing on genetics results on 3K mackerel, presumably because they would consider a TAC increase mid-season if the results showed a different origin. Can see the Science advice (formal or informal) coming from those results supporting/providing a rationale for a mid-season increase in TAC? Usually things are not that black and white. If we do not see any possibility that the new information would change the advice in any way we may as well tell them that right now. The memo may reference that, we have not seen a draft yet.
Thanks and apologies if I am confused and have missed something
Thanks!
Martha

-----Original Appointment-----
From: Castonguay, Martin
Sent: April-19-17 1:54 PM
To: Krohn, Martha
Subject: Acceptée : mackerel memo
When: April-20-17 11:30 AM-12:00 PM (UTC-05:00) Eastern Time (US & Canada).
Where: 1-877-413-4792 [redacted]

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s.21(1)(b)

Krohn, Martha

From: Marentette, Julie
Sent: April-19-17 1:54 PM
To: Lester, Brian; Cawthray, Jenness
Cc: Krohn, Martha
Subject: RE: Draft Science Advice Section for Mackerel Memo

Categories: Red Category

Thanks Brian for noting that - yes, in 2016 it was 40,000 t, for the 2017 season it is projected to 48,283 t (approximately 48,000 t).

From: Lester, Brian
Sent: April 19, 2017 13:51
To: Marentette, Julie; Cawthray, Jenness
Cc: Krohn, Martha
Subject: Re: Draft Science Advice Section for Mackerel Memo

Just to confirm, is the estimate of biomass at the beginning of 2017 fishing season not 48,000+ ?

Sent from my BlackBerry 10 smartphone on the Rogers network.

From: Marentette, Julie
Sent: Wednesday, April 19, 2017 1:48 PM
To: Cawthray, Jenness; Lester, Brian
Cc: Krohn, Martha
Subject: RE: Draft Science Advice Section for Mackerel Memo

Hi Jenness,

See new red sentence below. As I am on travel - Martha has agreed to coordinate a call between you and the regional Science folks - thanks again Martha!

SCIENCE ADVICE

A stock assessment for Atlantic Mackerel was conducted March 8-9, 2017. The current spawning stock biomass was estimated at 40,000 t, lower than the Limit Reference Point of 103,000 t, placing Atlantic Mackerel in the Critical Zone of the Precautionary Approach framework. It was estimated that unreported catches (recreational, bait, discard mortality and a portion of the American landings) averaged approximately 6,000 t in recent years, in addition to commercial landings. This means that with a TAC of 8,000 t, total landings in 2016 were approximately 14,000 t. According to the assessment, Atlantic Mackerel spawning stock biomass has increased slightly since reaching a historical low in 2012. DFO Science has recommended that, because the stock remains in the critical zone, total catches (declared and unreported) should be low enough to facilitate stock recovery.

Modelled stock projections over a two-year assessment period (2017-2019) indicate that total landings of 16,000 t (10,000 t TAC and up to 6,000 t undeclared catches) [redacted] the Atlantic Mackerel spawning stock biomass would continue to increase in abundance over current levels. This corresponds to a high probability of growth, as defined in DFO's Precautionary Approach framework (high = 75-95%).

DFO Science has also noted that improved data collection on unreported catches is a priority. [*EFM to specify what methods you decide to go with here*]

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Thanks,
Julie

From: Cawthray, Jenness
Sent: April 19, 2017 08:27
To: Marentette, Julie; Lester, Brian
Subject: RE: Draft Science Advice Section for Mackerel Memo

Hi Julie,
Could you include the LRP and discussion on the critical status of the stock in your section.
Although I will discuss the critical nature of the stock my section will be non-technical (high-leve) and will be based on the science assessment of the stock.
Thanks,
Jenness

From: Marentette, Julie
Sent: April-18-17 3:18 PM
To: Lester, Brian; Cawthray, Jenness
Subject: Draft Science Advice Section for Mackerel Memo

Hi Jenness and Brian,

Please find attached the draft "Science Advice" section of the upcoming memo – it will clearly need to be edited to fit into your draft and then edited again in context in order to make sense!

I'm also assuming that the LRP (103,000 t) and Critical status of the stock (SSB at 40,000 t) are described earlier in the memo... so not included here.

Best regards,

Julie Marentette, Ph.D.
Science Advisor, Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Julie.Marentette@dfo-mpo.gc.ca /Tel: 613-943-2098
Conseillère scientifique, Sciences des populations halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Julie.Marentette@dfo-mpo.gc.ca /Tél: 613-943-2098

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Marentette, Julie

From: Marentette, Julie
Sent: April-19-17 12:56 PM
To: Krohn, Martha
Subject: FW: Draft Science Advice Section for Mackerel Memo

Importance: High

Hi Martha,

Could I ask you a very large favour - could you set up a conference call with EFM (Brian and Jenness) and QC Science (Martin and Thomas) this week to discuss the upcoming Mackerel memo? I unfortunately cannot see anyone's calendars on this remote system, and I also don't have the ability to open the EKME file that books the FPS con call line and gives the number and conference/moderator IDs. So sorry about that.

I spoke with Martin before I left and indicated that EFM was very interested in the 3K results, I don't know how much of the memo will reside on this but this call could be about the entire memo.

Thanks!!
Julie

From: Lester, Brian
Sent: April 19, 2017 10:16
To: Marentette, Julie; Cawthray, Jenness
Cc: Krohn, Martha
Subject: RE: Draft Science Advice Section for Mackerel Memo

I think a quick discussion with the region would be helpful for the memo writing.

From: Marentette, Julie
Sent: 2017–April-18 3:51 PM
To: Lester, Brian; Cawthray, Jenness
Cc: Krohn, Martha
Subject: RE: Draft Science Advice Section for Mackerel Memo

Hi Brian and Jenness,

Would it be at all helpful if I scheduled a conference call with Quebec Science folks on the 3K mackerel that are being sent for genetic testing? Will this be helpful for the memo that you are developing?

I am travelling the rest of this week for the surfclam assessment but will have email access and can help set up a call this week if that would be helpful.

Best regards,

Julie Marentette, Ph.D.
Science Advisor, Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Julie.Marentette@dfo-mpo.gc.ca /Tel: 613-943-2098
Conseillère scientifique, Sciences des populations halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Julie.Marentette@dfo-mpo.gc.ca /Tél: 613-943-2098

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s.21(1)(b)

From: Marentette, Julie
Sent: April-18-17 3:18 PM
To: Lester, Brian; Cawthray, Jenness
Subject: Draft Science Advice Section for Mackerel Memo

Hi Jenness and Brian,

Please find attached the draft "Science Advice" section of the upcoming memo – it will clearly need to be edited to fit into your draft and then edited again in context in order to make sense!

I'm also assuming that the LRP (103,000 t) and Critical status of the stock (SSB at 40,000 t) are described earlier in the memo... so not included here.

SCIENCE ADVICE

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Modelled stock projections over a two-year assessment period (2017-2019) indicate that total landings of 16,000 t (10,000 t TAC and up to 6,000 t undeclared catches) [redacted] the Atlantic Mackerel spawning stock biomass would continue to increase in abundance over current levels. This corresponds to a high probability of growth, as defined in DFO's Precautionary Approach framework (high = 75-95%).

DFO Science has also noted that improved data collection on unreported catches is a priority. [*EFM to specify what methods you decide to go with here*]

Best regards,

Julie Marentette, Ph.D.
Science Advisor, Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Julie.Marentette@dfo-mpo.gc.ca /Tel: 613-943-2098
Conseillère scientifique, Sciences des populations halieutiques
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s.21(1)(b)

s.23

Marentette, Julie

From: Rivierre, Antoine
Sent: April-24-17 1:23 PM
To: Cawthray, Jenness; Mallet, Pierre; Gaudet, Mario; Thomas, Tashina; Waters, Christa; Marentette, Julie; Doniol-Valcroze, Thomas; Krohn, Martha; Dunne, Erin; Lavoie, Pierre; Castonguay, Martin
Cc: Lester, Brian
Subject: [redacted]
Attachments:

Bonjour Jenness

[redacted]

Antoine

De : Cawthray, Jenness
Envoyé : 24 avril 2017 08:59
À : Rivierre, Antoine; Mallet, Pierre; Gaudet, Mario; Thomas, Tashina; Waters, Christa; Marentette, Julie; Doniol-Valcroze, Thomas; Krohn, Martha; Dunne, Erin; Lavoie, Pierre; Castonguay, Martin
Cc : Lester, Brian
Objet : [redacted]
Importance : Haute

Hello All,

[redacted]

Much appreciated!
Thanks!

Jenness Cawthray
Senior Fisheries and Aquaculture Management Officer |
Agent principal, Gestion des pêches et de l'aquaculture
Fisheries and Oceans | Pêches et océans
200 rue Kent Street - 13S013 Ottawa, ON, K1A 0E6

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Facsimile | Télécopieur (613) 990-7051
Government of Canada | Gouvernement du Canada

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of the Access to Information Act
de la Loi sur l'accès à l'information

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s.21(1)(b)

s.23

Marentette, Julie

From: Doniol-Valcroze, Thomas
Sent: April-24-17 1:43 PM
To: Cawthray, Jenness; Rivierre, Antoine; Mallet, Pierre; Gaudet, Mario; Thomas, Tashina; Waters, Christa; Marentette, Julie; Krohn, Martha; Dunne, Erin; Lavoie, Pierre; Castonguay, Martin
Cc: Lester, Brian; Castonguay, Martin
Subject:
Attachments:

Hi all,

Best,
Thomas

De : Cawthray, Jenness
Envoyé : 24 avril 2017 08:59
À : Rivierre, Antoine; Mallet, Pierre; Gaudet, Mario; Thomas, Tashina; Waters, Christa; Marentette, Julie; Doniol-Valcroze, Thomas; Krohn, Martha; Dunne, Erin; Lavoie, Pierre; Castonguay, Martin
Cc : Lester, Brian
Objet :
Importance : Haute

Hello All,

Much appreciated!
Thanks!

Jenness Cawthray
Senior Fisheries and Aquaculture Management Officer |
Agent principal, Gestion des pêches et de l'aquaculture
Fisheries and Oceans | Pêches et océans
200 rue Kent Street - 13S013 Ottawa, ON, K1A 0E6
Jenness.Cawthray@dfo-mpo.gc.ca
Telephone | Téléphone (613) 998-1524
Facsimile | Télécopieur (613) 990-7051
Government of Canada | Gouvernement du Canada

Pages 2260 to / à 2267

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s.21(1)(b)

s.23

Marentette, Julie

From: Waters, Christa
Sent: April-24-17 2:47 PM
To: Cawthray, Jenness; Rivierre, Antoine; Mallet, Pierre; Gaudet, Mario; Thomas, Tashina; Marentette, Julie; Doniol-Valcroze, Thomas; Krohn, Martha; Dunne, Erin; Lavoie, Pierre; Castonguay, Martin
Cc: Lester, Brian; Berthier, Jacinta; Wentzell, Doug
Subject:
Attachments:

Hello,

Christa

From: Cawthray, Jenness
Sent: April 24, 2017 9:59 AM
To: Rivierre, Antoine; Mallet, Pierre; Gaudet, Mario; Thomas, Tashina; Waters, Christa; Marentette, Julie; Doniol-Valcroze, Thomas; Krohn, Martha; Dunne, Erin; Lavoie, Pierre; Castonguay, Martin
Cc: Lester, Brian
Subject:
Importance: High

Hello All,

Much appreciated!
Thanks!

Jenness Cawthray
Senior Fisheries and Aquaculture Management Officer |
Agent principal, Gestion des pêches et de l'aquaculture
Fisheries and Oceans | Pêches et océans
200 rue Kent Street - 13S013 Ottawa, ON, K1A 0E6
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s.21(1)(b)
s.23

Patterson, Pauline

De: Gros-Louis, Denis
Envoyé: April-24-17 1:43 PM
À: Cawthray, Jenness; Mallet, Pierre
Cc: Lester, Brian; Rivierre, Antoine; Boudreau, Suzie
Objet: RE: [redacted]

[redacted]

Denis

De : Rivierre, Antoine
Envoyé : 24 avril 2017 13:23
À : Cawthray, Jenness <cawthrayj.Cawthray@dfo-mpo.gc.ca>; Mallet, Pierre <Pierre.Mallet@dfo-mpo.gc.ca>; Gaudet, Mario <Mario.Gaudet@dfo-mpo.gc.ca>; Thomas, Tashina <Tashina.Thomas@dfo-mpo.gc.ca>; Waters, Christa <Christa.Waters@dfo-mpo.gc.ca>; Marentette, Julie <Julie.Marentette@dfo-mpo.gc.ca>; Doniol-Valcroze, Thomas <Thomas.Doniol-Valcroze@dfo-mpo.gc.ca>; Krohn, Martha <Martha.Krohn@dfo-mpo.gc.ca>; Dunne, Erin <Erin.Dunne@dfo-mpo.gc.ca>; Lavoie, Pierre <Pierre.Lavoie@dfo-mpo.gc.ca>; Castonguay, Martin <Martin.Castonguay@dfo-mpo.gc.ca>
Cc : Lester, Brian <Brian.Lester@dfo-mpo.gc.ca>
Objet : RE: [redacted]

Bonjour Jenness

[redacted]

Antoine

De : Cawthray, Jenness
Envoyé : 24 avril 2017 08:59
À : Rivierre, Antoine; Mallet, Pierre; Gaudet, Mario; Thomas, Tashina; Waters, Christa; Marentette, Julie; Doniol-Valcroze, Thomas; Krohn, Martha; Dunne, Erin; Lavoie, Pierre; Castonguay, Martin
Cc : Lester, Brian
Objet : [redacted]
Importance : Haute

Hello All,

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Much appreciated!
Thanks!

Jenness Cawthray
Senior Fisheries and Aquaculture Management Officer |
Agent principal, Gestion des pêches et de l'aquaculture
Fisheries and Oceans | Pêches et océans
200 rue Kent Street - 13S013 Ottawa, ON, K1A 0E6
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s.23

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s.21(1)(b)
s.23

Cormier, Mélanie

De: Cawthray, Jenness
Envoyé: 24 avril 2017 08:59
À: Rivierre, Antoine; Mallet, Pierre; Gaudet, Mario; Thomas, Tashina; Waters, Christa; Marentette, Julie; Doniol-Valcroze, Thomas; Krohn, Martha; Dunne, Erin; Lavoie, Pierre; Castonguay, Martin
Cc: Lester, Brian
Objet: [redacted]
Pièces jointes: [redacted]

Importance: Haute

Hello All,

[redacted]

Much appreciated!
Thanks!

Jenness Cawthray
Senior Fisheries and Aquaculture Management Officer |
Agent principal, Gestion des pêches et de l'aquaculture
Fisheries and Oceans | Pêches et océans
200 rue Kent Street - 13S013 Ottawa, ON, K1A 0E6
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Cormier, Mélanie

De: Waters, Christa
Envoyé: 24 avril 2017 13:48
À: Cawthray, Jenness; Dunne, Erin; Rivierre, Antoine; Mallet, Pierre; Gaudet, Mario; Doniol-Valcroze, Thomas
Cc: Lester, Brian; Berthier, Jacinta; Wentzell, Doug
Objet: MECTS-#3766140-v3-2017_ATLANTIC_MACKEREL_MANAGEMENT_MEASURES_clw input.DOCX
Pièces jointes: MECTS-#3766140-v3-2017_ATLANTIC_MACKEREL_MANAGEMENT_MEASURES_clw input.DOCX

Hello Jenness,
Thanks for your hard work on this. Not an easy one to write. Please find Maritimes input for your consideration.
Thanks,
Christa

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Fisheries and Oceans Canada | Pêches et Océans Canada

Deputy Minister | Sous-ministre

UNCLASSIFIED
2017-045-00376
EKME #: 3766140

MEMORANDUM FOR THE MINISTER

2017 ATLANTIC MACKEREL MANAGEMENT MEASURES
(FOR DECISION)

SUMMARY OF ADVICE TO MINISTER

This memo seeks your approval of the Total Allowable Catches (TAC) for the mackerel fishery in Atlantic Canada and Quebec, and outlines next steps for improved reporting and a rebuilding plan for this fishery. A map of Atlantic mackerel harvesting areas is provided at TAB 1.

On March 30, 2017, the Atlantic Mackerel Advisory Committee (AMAC) met to discuss the TAC levels and other key management issues for this fishery. A supplementary meeting for aboriginal groups was also held on March 28, 2017. At these meetings Science presented results of a recently completed peer-reviewed stock assessment for Mackerel in Canadian waters (TAB 2). Results from a new assessment model indicate that ~~while~~ the stock continues to remain in the critical zone. Stock projections are at the end of Tab 2.

AMAC was unable to reach a consensus on a TAC recommendation for the 2017 and 2018 fishery. Commercial harvesters and the provinces put forth recommendations to increase the TAC to 20,000t or 36,000t including undeclared catch estimated at 6,000t per year under current monitoring. Aboriginal organizations suggested a closure of the fishery while it remains in the critical zone and non-government organizations requested implementing a low TAC.

Unreported landings in bait and some commercial fisheries and unknown harvests from the recreational fishery are continuing to impact the stock assessment. AMAC members agree that monitoring and reporting of catches for this fishery must be improved. The department is actively undertaking measures to improve catch reporting for the commercial and bait fisheries in 2017 and beyond (TAB 3).

It is recommended that that you set the 2017 commercial TAC at ~~1~~610,000t for one year. This would consist of 10,000t (representing an ~~modest~~ increase from 8,000t in 2016) for the commercial fishery and the estimated 6,000t for unreported catches. Consistent with the PA approach, this harvest level has a high probability of growth over the coming year and it strikes a balance between projected positive growth of the stock and the economic importance of the fishery. This should also encourage better reporting as well as promote participation in a rebuilding plan working group.

Commentaire [D1]:
What about temporary freeze on all licences?

Commentaire [D2]: My recollection is that commercial licence holders wanting improvements for the bait fishery, but some commercial licence holders (in particular) Maritimes harvesters were opposed to any further restrictions being imposed.

Commentaire [D3]: IN the Maritimes, we are too close to the wire to be able to get much implemented this year. I will get weekly hails/logbooks in for this season for the commercial fisheries (given licence condition review and NOLLS). Bait fishery has already started.

Canada

.../2

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BACKGROUND

The Atlantic Mackerel stock is a trans-boundary stock found in both Canadian and United States (US) waters (map at TAB 1). Mackerel is fished in Canadian waters on a fully competitive basis, with an inshore/offshore split of 60%/40% respectively. There is no regional sharing arrangement in place. Fish form the Canadian stock overwinter in the US waters.

The Integrated Fisheries Management Plan indicates a priority of access to licence holders with vessels less than 65' (the inshore fleet) for up to 60% of the Total Allowable Catch (TAC) over the licence holders member of the fleet having vessels 65' and over (the offshore fleet). The priority of access of the mackerel fishery given to the inshore fleet was an initiative to help protect the inshore sector and traditional inshore markets and includes a consideration to allow the inshore fleet to continue to harvest even after they have 60% of the TAC if the >65' fleet had not harvested all of their 40%.

Total reported commercial landings in Atlantic Canada have decreased significantly in recent years, from a high of 54,621t in 2005 to record low 4,145t in 2015. During the same time frame, TAC levels have followed the landings trajectory and resulted in a reduction from 36,000t in 2013 to a low of 8,000t per year over the past two years. The TAC was not restrictive on landings until 2016.

In 2016, the TAC was reached and the fishery was closed in season for the first time ever. Commercial landings averaged just over 5,000t per year in 2014 and 2015. Significant catches by the Newfoundland inshore fleet, with the majority in 3K, in early October 2016, lead to a closure the fishery. It is important to note that the appearance of mackerel in 3K is not typical and it appears periodically.

There was significant negative reaction following the closure of the mackerel fishery as the offshore fleet (>65' large seiners) did not have an opportunity to fish in 2016 as they were just starting when the Department closed the fishery. Harvesters in 3K indicated that there was a large stock of mackerel still in the waters in this area when the fishery closed. Harvesters have also noted the that mackerel in area 3K in the east coast of Newfoundland and Labrador have a different appearance than the mackerel on the west coast and could be from a different stock, such as European mackerel.

The decision to allow the inshore fleet to continue harvesting without some consultation with the >65' fleet has resulted in a Judicial Review (JR) by the >65' purse seine licence holders

The 2014 science stock assessment indicated that annual catches in 2014 and 2015 should not exceed 800 tons per year in the commercial fishery. The results from science were not accepted and science has worked on developing a new model. This new stock assessment has shown some

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growth in recent years and that there are some early signs of good recruitment coming into the fishery.

Science's has recently undertaken a new stock assessment and developed a revised Limit Reference Point for Atlantic mackerel (TAB 2). While the new assessment shows some early positive signs of growth since 2012, the stock is still well within the critical zone as defined by the Precautionary Approach (PA) Framework. The scientific model provides a range of harvest scenarios with associated growth projections. It is understood that considering the stock is in the critical zone, total catches (undeclared and declared) not inhibit continued growth with an aim of getting out of the critical zone. Declared catches represents the number of commercial landings and some bait catches; while undeclared represents catches that are unreported from some commercial and bait fisheries as well as recreational harvests. There are currently no restrictions on the amount of catch and no closed season for recreational harvests of mackerel. Science continues to note concerns with undeclared harvests, which could be significant given the current biomass. It is important to note that as reporting is improved this year, the level of undeclared catch should decline and declared catches ~~would~~ should rise by the same amount. Therefore, with better reporting over time, a higher portion of the overall catch would be available for the commercial fishery.

Results of the stock assessment were presented at AMAC. While the new model was viewed more favorably by stakeholders than the previous model; industry was of the view that it severely underestimates the overall biomass. Fishermen have reported a significant number of small fish throughout the Gulf of St. Lawrence in 2016 which could be the sign of good recruitment.

At AMAC, commercial harvesters put forth recommendations to increase the TAC to 20,000t or 36,000t, inclusive of undeclared catch; however, these levels do not promote growth of the stock in line with DFO's Precautionary Growth Framework. Aboriginal groups suggested a closure of the fishery while the stock remains in the critical zone; while Ecology Action Center and the World Wildlife Fund have requested a low TAC of 8,000t while the stock remains in the critical zone.

The AMAC normally meets every two years and the management measures, including TAC, are established for a two-year cycle. However, the Committee has requested a one year TAC for 2017 and to revisit the management plan for 2018 despite no new assessment will be undertaken until 2019.

The current TAC for the US is currently set at 9,822t for 2017.

Science is working with their southern counterparts on a Canada/US joint stock assessment for 2019.

USA landings to date are 3, 215t. This is up substantially (%) from last year. May be additional signs of recruitment, also increased effort on Canadian contingent fish.

Commentaire [D5]: Possible recruitment – we should properly characterize the uncertainty here. This will not be known (at the earliest) until at least this year, and whether it the increase abundance (if real) persists, is another uncertainty.

Commentaire [D6]: This is only true if the commercial catches that are undeclared. The undeclared will also go to bait (do we consider this commercial fishery?) and Rec.

Commentaire [D7]: This should also go in your aboriginal consultation section

Commentaire [D8]: Inclusive of undeclared catches)

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STRATEGIC CONSIDERATIONS

Commentaire [D9]: Should include what reaction is anticipated from Aboriginal groups/ENGOs' and Rec interests.

Harvesters will not react favorably to a TAC of 16,000t as it is far below requests from industry, particularly in NL where a 36,000t TAC was recommended. Based on migration, the fish arrives last in NL, typically in late September after other provinces have had several months of harvesting. the Department is of the view that a more conservative 16,000t TAC would keep fishing mortality numbers within acceptable scientific limits consistent with the PA framework of above 75 percent probability of growth, at 77 percent specifically for this harvest level. This represents a balance between projected positive growth in the stock, recognizing the economic value of the fishery and its importance as a bait source. This slight increase may encourage better reporting and support industry participation in a rebuilding plan for the fishery. This conservative approach is also in line with the government mandate that all fisheries management decisions be supported by sound science.

A TAC of 16,000t comprises 10,000t for the commercial fishery and 6,000t for undeclared catches. This represents only a modest increase in the TAC for the commercial fishery from 8000t in 2016. Better reporting in 2017, most specifically in the Southern Gulf, should result in upwards of 1,000t moving from undeclared to the commercial declared category.

The department has undertaken a study of genetic mackerel in the 3K area, which hopes to address views that mackerel in this area could be from the European stock which has strong population numbers. Results are expected to be available late summer.

Undeclared harvests in the bait and recreational fisheries continue to represent a challenge in the assessment and management of the fishery. The department is currently analysing options for the inclusion mackerel as a potential stock to be included under Marine Recreational Fishing Licence for Eastern Canada to establish harvest limits and improve reporting of this fishery.

In 2016, harvesters were critical of the ~~rapid and~~ unexpected closure of the fishery. In order to mitigate this situation next season the Department has started implementing measures to enhance monitoring and timely data collection, particularly in the Gulf and Maritimes Regions (Regional summary table of monitoring Tab 3). In addition, the department intends to hold a conference call with AMAC when 50 % of established commercial TAC is reached to update the Committee on landings, to consult on priority of access on the inshore/offshore split of 60%/40%, and if available, provide results of the genetic study on mackerel in area 3K. This consultation with AMAC, in mid-season, may assist in the Department's ability to come to a settlement agreement with the >65' purse seine fleet in terms of their current JR.

Commentaire [D11]: The closure was in mid-October – almost a full season. Maybe they were more upset because it was unexpected?

The AMAC normally meets every two years and the management measures, including TAC, are established for a two-year cycle; however, the Committee has requested a one-year TAC for 2017. As such, the department plans to hold a conference call with AMAC, as requested in

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winter 2018, to review the 2017 harvest and evaluate the effectiveness of new reporting requirements.

In September 2014, Atlantic mackerel was put on a priority list by the Committee on the Status of Endangered Wildlife in Canada given the rate of decline in the stock. The 2016 audit of the Commissioner of the Environment and Sustainable Development identified Mackerel as a stock in the critical zone requiring a rebuilding plan as part of the Integrated Fisheries Management Plan (IFMP) The department has already received widespread support from industry stakeholders to participate in a rebuilding plan working group for the mackerel fishery which will convene late spring/early summer 2017. The IFMP for Atlantic mackerel, which has been in effect since 2007, will be updated in advance of the 2019 AMAC meeting.

SCIENCE ADVICE

A stock assessment for Atlantic Mackerel was conducted March 8-9, 2017. The current spawning stock biomass was estimated at 48,000t for 2017, lower than the Limit Reference Point of 103,000t, placing Atlantic Mackerel in the Critical Zone of the Precautionary Approach framework. It was estimated that unreported/undeclared catches (recreational, bait, discard mortality and a portion of the American landings) averaged approximately 6,000t in recent years, in addition to commercial landings. This means that with a commercial TAC of 8,000t, total landings, including the undeclared estimate, were approximately 14,000t in 2016. According to the assessment, Atlantic Mackerel spawning stock biomass has increased slightly since reaching a historical low in 2012. DFO Science has recommended that, because the stock remains in the critical zone, total catches (declared and unreported) should be low enough to facilitate stock recovery.

Modelled stock projections over a two-year assessment period (2017-2019) indicate that total landings of 16,000t (10,000t TAC and up to 6,000t undeclared catches) the Atlantic Mackerel spawning stock biomass would continue to increase in abundance over current levels. This corresponds to a high probability of growth, as defined in DFO's Precautionary Approach framework (high = 75-95%).

DFO Science has also noted that improved data collection on unreported catches is a priority.

INTERDEPARTMENTAL CONSULTATIONS

No interdepartmental consultations were required.

INDIGENOUS CONSULTATIONS

Indigenous groups are represented as members on the Atlantic Mackerel Advisory Committee. In addition, a supplementary meeting was held to permit additional consultation with indigenous groups.

EXTERNAL CONSULTATIONS

Commentaire [D13]: This section should contain more detail. Especially given the Broader governmental objective of improving our nation to nation relationship and the Ministers Mandate letter.

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The Department consulted with representatives of the mackerel industry, including harvesters and processors, industry associations, the Atlantic Provinces and Quebec.

ADVICE AND RECOMMENDATIONS TO MINISTER

It is recommended that you approve at TAC of 16,000t (consisting of 10,000t for the commercial fishery and 6,000t for unreported catches) for the Atlantic Mackerel fishery for 2017.

The Department will establish the process to review the fishery when landings reach 50% (5,000t) of this established commercial TAC. Additionally, a Mackerel Rebuilding Plan Working Group will be convened that will focus on setting an upper stock reference point as well as harvest control rules to support rebuilding this stock into the healthy zone of the PA . A meeting of AMAC will occur, via conference call, in the spring of 2018 to solicit industry advice for 2018.

Media lines will be prepared in response to the release of TAC measures.

Catherine Blewett
Deputy Minister

Kevin Stringer
Associate Deputy Minister

☐ I concur with the recommendations

☐ I do not concur with the recommendations

Dominic LeBlanc
Minister

Minister's Comments:

1) Attachments:

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No information has been removed or severed from this page

TAB 1

~~NAFO~~

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Thomas, Tashina

From: Mallet, Pierre
Sent: April-24-17 3:21 PM
To: Cawthray, Jenness; Thomas, Tashina; Rivierre, Antoine; Dunne, Erin; Waters, Christa; Gaudet, Mario
Subject: RE: Information on key NL fisheries

Not yet, it will come

From: Cawthray, Jenness
Sent: April-24-17 3:19 PM
To: Mallet, Pierre; Thomas, Tashina; Rivierre, Antoine; Dunne, Erin; Waters, Christa; Gaudet, Mario
Subject: RE: Information on key NL fisheries

Have you also had requests in the Gulf to open the fishery recently?

From: Mallet, Pierre
Sent: April-24-17 2:06 PM
To: Thomas, Tashina; Rivierre, Antoine; Cawthray, Jenness; Dunne, Erin; Waters, Christa; Gaudet, Mario
Subject: RE: Information on key NL fisheries

Thanks Boss! ☺

From: Thomas, Tashina
Sent: April-24-17 3:06 PM
To: Mallet, Pierre; Rivierre, Antoine; Cawthray, Jenness; Dunne, Erin; Waters, Christa; Gaudet, Mario
Subject: RE: Information on key NL fisheries

He meant May 15

From: Mallet, Pierre
Sent: April-24-17 3:04 PM
To: Rivierre, Antoine; Cawthray, Jenness; Dunne, Erin; Waters, Christa; Gaudet, Mario; Thomas, Tashina
Subject: RE: Information on key NL fisheries

Hi Jenness,

The fishery open on June 15 in the Gulf also (Area 16)

From: Rivierre, Antoine
Sent: April-24-17 2:56 PM
To: Cawthray, Jenness; Dunne, Erin; Waters, Christa; Gaudet, Mario; Mallet, Pierre; Thomas, Tashina
Subject: RE: Information on key NL fisheries

It's all good for me...

Antoine

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De : Cawthray, Jenness
Envoyé : 24 avril 2017 13:51
À : Rivierre, Antoine; Dunne, Erin; Waters, Christa; Gaudet, Mario; Mallet, Pierre; Thomas, Tashina
Objet : FW: Information on key NL fisheries
Importance : Haute

Hi Everyone,

I am looking for a very quick turnaround on this given all the issues in NL of late? Can you provide ASAP. Sorry for the tight timeline! I have spoken to Christa and made an attempt with the response.
Thanks!
Jenness

1) timing on decision (what's outstanding and real drop dead dates on announcement/fishery opening

- Varies by Region, Maritimes is the first to open. The Department was seeking TAC by May 15, with fishery open as soon as decision is made. In 2016, the first recorded catchers were second week of May in the Maritimes. This year, there have already been numerous requests to open the fishery in the Maritimes Regions.
- In Newfoundland, the fishery opens August 1, Quebec opens June 1 and Gulf opens June 1.
- The fishery has opened in the past without a TAC announcement. If we give the Maritimes the go ahead, they can go ahead and open the fishery. We don't see any negative implications to this.

2) inshore perspective / expectation – Expectation are that fishery should open very soon.

- There will likely be a negative reaction with a TAC announcement of 16,000t, particularly in NL where a 36,000t TAC was recommended by harvesters. Commercial harvesters and the provinces put forth recommendations to increase the TAC to 20,000t or 36,000t including undeclared catch estimated at 6,000t per year under current monitoring.

3) other considerations

-

From: Lester, Brian
Sent: April-24-17 1:03 PM
To: Cawthray, Jenness; Courchesne, Sandra; Kerwin, Jessica
Cc: Burns, Adam; Jenkins, Randy; Buie, Jennifer
Subject: Information on key NL fisheries

Hello ladies: Adam is looking for some information by end of day on 6 key species. What he is looking for (I believe) is to address 3 main issues (see headings below) . Use these three headings and fill in a couple of points for each in terms of NL. Key species/fisheries: 2+3 herring (Jess), Coastal and Gulf Halibut (Sandra), Northern cod (Sandra), mackerel and seals (Jenness). Jess I am not sure what you will be able to find out on that one given it is regionally managed and Advisory has already taken place but look at memo you found other day.

1) timing on decision (what's outstanding and real drop dead dates on announcement/fishery opening
2) inshore perspective / expectation

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3) other considerations

Sent from my BlackBerry 10 smartphone on the Rogers network.

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Thomas, Tashina

From: Thomas, Tashina
Sent: April-24-17 3:17 PM
To: Cawthray, Jenness
Subject: RE: Information on key NL fisheries

Gulf is Area 16
It opens May 15.

From: Cawthray, Jenness
Sent: April-24-17 3:14 PM
To: Thomas, Tashina
Subject: RE: Information on key NL fisheries

Correct? Do I need to include other areas?

- Gulf opens June 1 and May 15 in Area 16.

From: Thomas, Tashina
Sent: April-24-17 2:06 PM
To: Mallet, Pierre; Rivierre, Antoine; Cawthray, Jenness; Dunne, Erin; Waters, Christa; Gaudet, Mario
Subject: RE: Information on key NL fisheries

He meant May 15

From: Mallet, Pierre
Sent: April-24-17 3:04 PM
To: Rivierre, Antoine; Cawthray, Jenness; Dunne, Erin; Waters, Christa; Gaudet, Mario; Thomas, Tashina
Subject: RE: Information on key NL fisheries

Hi Jenness,

The fishery open on June 15 in the Gulf also (Area 16)

From: Rivierre, Antoine
Sent: April-24-17 2:56 PM
To: Cawthray, Jenness; Dunne, Erin; Waters, Christa; Gaudet, Mario; Mallet, Pierre; Thomas, Tashina
Subject: RE: Information on key NL fisheries

It's all good for me...

Antoine

De : Cawthray, Jenness
Envoyé : 24 avril 2017 13:51
À : Rivierre, Antoine; Dunne, Erin; Waters, Christa; Gaudet, Mario; Mallet, Pierre; Thomas, Tashina
Objet : FW: Information on key NL fisheries
Importance : Haute

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Hi Everyone,

I am looking for a very quick turnaround on this given all the issues in NL of late? Can you provide ASAP. Sorry for the tight timeline! I have spoken to Christa and made an attempt with the response.
Thanks!
Jenness

1) timing on decision (what's outstanding and real drop dead dates on announcement/fishery opening

- Varies by Region, Maritimes is the first to open. The Department was seeking TAC by May 15, with fishery open as soon as decision is made. In 2016, the first recorded catchers were second week of May in the Maritimes. This year, there have already been numerous requests to open the fishery in the Maritimes Regions.
- In Newfoundland, the fishery opens August 1, Quebec opens June 1 and Gulf opens June 1.
- The fishery has opened in the past without a TAC announcement. If we give the Maritimes the go ahead, they can go ahead and open the fishery. We don't see any negative implications to this.

2) inshore perspective / expectation – Expectation are that fishery should open very soon.

- There will likely be a negative reaction with a TAC announcement of 16,000t, particularly in NL where a 36,000t TAC was recommended by harvesters. Commercial harvesters and the provinces put forth recommendations to increase the TAC to 20,000t or 36,000t including undeclared catch estimated at 6,000t per year under current monitoring.

3) other considerations

-

From: Lester, Brian
Sent: April-24-17 1:03 PM
To: Cawthray, Jenness; Courchesne, Sandra; Kerwin, Jessica
Cc: Burns, Adam; Jenkins, Randy; Buie, Jennifer
Subject: Information on key NL fisheries

Hello ladies: Adam is looking for some information by end of day on 6 key species. What he is looking for (I believe) is to address 3 main issues (see headings below) . Use these three headings and fill in a couple of points for each in terms of NL. Key species/fisheries: 2+3 herring (Jess), Coastal and Gulf Halibut (Sandra), Northern cod (Sandra), mackerel and seals (Jenness). Jess I am not sure what you will be able to find out on that one given it is regionally managed and Advisory has already taken place but look at memo you found other day.

1) timing on decision (what's outstanding and real drop dead dates on announcement/fishery opening
2) inshore perspective / expectation
3) other considerations

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s.21(1)(b)

s.23

Cawthray, Jenness

From: Gaudet, Mario
Sent: April-24-17 2:26 PM
To: Cawthray, Jenness
Cc: Mallet, Pierre
Subject:
Attachments:

Hi Jenness,

Thanks!

Mario

De : Cawthray, Jenness
Envoyé : 24 avril 2017 09:59
À : Rivierre, Antoine; Mallet, Pierre; Gaudet, Mario; Thomas, Tashina; Waters, Christa; Marentette, Julie; Doniol-Valcroze, Thomas; Krohn, Martha; Dunne, Erin; Lavoie, Pierre; Castonguay, Martin
Cc : Lester, Brian
Objet :

Hello All,

Much appreciated!
Thanks!

Jenness Cawthray
Senior Fisheries and Aquaculture Management Officer |
Agent principal, Gestion des pêches et de l'aquaculture
Fisheries and Oceans | Pêches et océans
200 rue Kent Street - 13S013 Ottawa, ON, K1A 0E6
Jenness.Cawthray@dfo-mpo.gc.ca
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Facsimile | Télécopieur (613) 990-7051
Government of Canada | Gouvernement du Canada

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de la Loi sur l'accès à l'information

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s.21(1)(b)

Krohn, Martha

From: Marentette, Julie
Sent: April-25-17 8:27 AM
To: Krohn, Martha
Subject: FW: MECTS-#3766140-v3-2017_ATLANTIC_MACKEREL_MANAGEMENT_MEASURES_clw input.DOCX

Categories: Red Category

fyi

From: Waters, Christa
Sent: April 25, 2017 07:40
To: Doniol-Valcroze, Thomas; Lester, Brian; Cawthray, Jenness
Cc: Castonguay, Martin; Marentette, Julie
Subject: RE: MECTS-#3766140-v3-2017_ATLANTIC_MACKEREL_MANAGEMENT_MEASURES_clw input.DOCX

Hello again,
Given Tomas point (which I agree with) we may want to be careful with regard to the 3K genetic work.

Christa

From: Doniol-Valcroze, Thomas
Sent: April 24, 2017 2:57 PM
To: Waters, Christa; Cawthray, Jenness; Dunne, Erin; Rivierre, Antoine; Mallet, Pierre; Gaudet, Mario
Cc: Lester, Brian; Berthier, Jacinta; Wentzell, Doug; Castonguay, Martin
Subject: RE: MECTS-#3766140-v3-2017_ATLANTIC_MACKEREL_MANAGEMENT_MEASURES_clw input.DOCX

Christa,

I saw your comment on the US presentation and their catches being reliant on our spawning component.

we could reiterate that the US fishery is mixed and does harvest Canadian mackerel in unknown proportions.

Thomas

De : Waters, Christa
Envoyé : 24 avril 2017 13:48
À : Cawthray, Jenness; Dunne, Erin; Rivierre, Antoine; Mallet, Pierre; Gaudet, Mario; Doniol-Valcroze, Thomas
Cc : Lester, Brian; Berthier, Jacinta; Wentzell, Doug
Objet : MECTS-#3766140-v3-2017_ATLANTIC_MACKEREL_MANAGEMENT_MEASURES_clw input.DOCX

Hello Jenness,
Thanks for your hard work on this. Not an easy one to write. Please find Maritimes input for your consideration.
Thanks,
Christa

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s.21(1)(b)

s.23

Krohn, Martha

From: Castonguay, Martin
Sent: April-25-17 7:20 AM
To: Krohn, Martha; Marentette, Julie; Waters, Christa; Cawthray, Jenness; Rivierre, Antoine; Mallet, Pierre; Gaudet, Mario; Thomas, Tashina; Doniol-Valcroze, Thomas; Dunne, Erin; Lavoie, Pierre
Cc: Lester, Brian; Berthier, Jacinta; Wentzell, Doug
Subject:
Attachments:

Categories: Red Category

Hi,

Martin

De : Krohn, Martha
Envoyé : 24 avril 2017 16:29
À : Marentette, Julie; Waters, Christa; Cawthray, Jenness; Rivierre, Antoine; Mallet, Pierre; Gaudet, Mario; Thomas, Tashina; Doniol-Valcroze, Thomas; Dunne, Erin; Lavoie, Pierre; Castonguay, Martin
Cc : Lester, Brian; Berthier, Jacinta; Wentzell, Doug
Objet : RE:

Hi Jenness,

Martha

From: Marentette, Julie
Sent: April-24-17 3:54 PM
To: Waters, Christa; Cawthray, Jenness; Rivierre, Antoine; Mallet, Pierre; Gaudet, Mario; Thomas, Tashina; Doniol-Valcroze, Thomas; Krohn, Martha; Dunne, Erin; Lavoie, Pierre; Castonguay, Martin
Cc: Lester, Brian; Berthier, Jacinta; Wentzell, Doug
Subject: RE:

Hi Jenness,

Best regards,

Julie Marentette, Ph.D.

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Science Advisor, Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Julie.Marentette@dfo-mpo.gc.ca /Tel: 613-943-2098

Conseillère scientifique, Sciences des populations halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Julie.Marentette@dfo-mpo.gc.ca /Tél: 613-943-2098

s.21(1)(b)
s.23

From: Waters, Christa
Sent: April-24-17 2:47 PM
To: Cawthray, Jenness; Rivierre, Antoine; Mallet, Pierre; Gaudet, Mario; Thomas, Tashina; Marentette, Julie; Doniol-Valcroze, Thomas; Krohn, Martha; Dunne, Erin; Lavoie, Pierre; Castonguay, Martin
Cc: Lester, Brian; Berthier, Jacinta; Wentzell, Doug
Subject: RE: [redacted]

Hello,

[redacted]

Christa

From: Cawthray, Jenness
Sent: April 24, 2017 9:59 AM
To: Rivierre, Antoine; Mallet, Pierre; Gaudet, Mario; Thomas, Tashina; Waters, Christa; Marentette, Julie; Doniol-Valcroze, Thomas; Krohn, Martha; Dunne, Erin; Lavoie, Pierre; Castonguay, Martin
Cc: Lester, Brian
Subject: [redacted]
Importance: High

Hello All,

[redacted]

Much appreciated!
Thanks!

Jenness Cawthray
Senior Fisheries and Aquaculture Management Officer |
Agent principal, Gestion des pêches et de l'aquaculture
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s.23

Marentette, Julie

From: Cawthray, Jenness
Sent: April-25-17 7:36 AM
To: Krohn, Martha; Castonguay, Martin; Marentette, Julie; Waters, Christa; Rivierre, Antoine; Mallet, Pierre; Gaudet, Mario; Thomas, Tashina; Doniol-Valcroze, Thomas; Dunne, Erin; Lavoie, Pierre
Cc: Lester, Brian; Berthier, Jacinta; Wentzell, Doug
Subject: RE: [redacted]

Thanks everyone for your quick turnaround! [redacted]

Jenness

From: Krohn, Martha
Sent: April-25-17 7:33 AM
To: Castonguay, Martin; Marentette, Julie; Waters, Christa; Cawthray, Jenness; Rivierre, Antoine; Mallet, Pierre; Gaudet, Mario; Thomas, Tashina; Doniol-Valcroze, Thomas; Dunne, Erin; Lavoie, Pierre
Cc: Lester, Brian; Berthier, Jacinta; Wentzell, Doug
Subject: Re: [redacted]

Thanks Martin. [redacted]

Martha

Sent from my BlackBerry 10 smartphone on the Rogers network.

From: Castonguay, Martin
Sent: Tuesday, April 25, 2017 7:19 AM
To: Krohn, Martha; Marentette, Julie; Waters, Christa; Cawthray, Jenness; Rivierre, Antoine; Mallet, Pierre; Gaudet, Mario; Thomas, Tashina; Doniol-Valcroze, Thomas; Dunne, Erin; Lavoie, Pierre
Cc: Lester, Brian; Berthier, Jacinta; Wentzell, Doug
Subject: RE: [redacted]

Hi,

[redacted]

Martin

De : Krohn, Martha
Envoyé : 24 avril 2017 16:29
À : Marentette, Julie; Waters, Christa; Cawthray, Jenness; Rivierre, Antoine; Mallet, Pierre; Gaudet, Mario; Thomas, Tashina; Doniol-Valcroze, Thomas; Dunne, Erin; Lavoie, Pierre; Castonguay, Martin

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s.21(1)(b)
s.23

Cc : Lester, Brian; Berthier, Jacinta; Wentzell, Doug
Objet : RE: [redacted]

Hi Jenness,
[redacted]
Martha

From: Marentette, Julie
Sent: April-24-17 3:54 PM
To: Waters, Christa; Cawthray, Jenness; Rivierre, Antoine; Mallet, Pierre; Gaudet, Mario; Thomas, Tashina; Doniol-Valcroze, Thomas; Krohn, Martha; Dunne, Erin; Lavoie, Pierre; Castonguay, Martin
Cc: Lester, Brian; Berthier, Jacinta; Wentzell, Doug
Subject: RE: [redacted]

Hi Jenness,

[redacted]

Best regards,

Julie Marentette, Ph.D.
Science Advisor, Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Julie.Marentette@dfo-mpo.gc.ca /Tel: 613-943-2098
Conseillère scientifique, Sciences des populations halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Julie.Marentette@dfo-mpo.gc.ca /Tél: 613-943-2098

From: Waters, Christa
Sent: April-24-17 2:47 PM
To: Cawthray, Jenness; Rivierre, Antoine; Mallet, Pierre; Gaudet, Mario; Thomas, Tashina; Marentette, Julie; Doniol-Valcroze, Thomas; Krohn, Martha; Dunne, Erin; Lavoie, Pierre; Castonguay, Martin
Cc: Lester, Brian; Berthier, Jacinta; Wentzell, Doug
Subject: RE: [redacted]

Hello,
[redacted]
Christa

From: Cawthray, Jenness
Sent: April 24, 2017 9:59 AM
To: Rivierre, Antoine; Mallet, Pierre; Gaudet, Mario; Thomas, Tashina; Waters, Christa; Marentette, Julie; Doniol-Valcroze, Thomas; Krohn, Martha; Dunne, Erin; Lavoie, Pierre; Castonguay, Martin
Cc: Lester, Brian
Subject: [redacted]
Importance: High

Hello All,

[redacted]

Much appreciated!

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Thanks!

Jenness Cawthray
Senior Fisheries and Aquaculture Management Officer |
Agent principal, Gestion des pêches et de l'aquaculture
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Marentette, Julie

From: Castonguay, Martin
Sent: April-25-17 3:19 PM
To: Krohn, Martha
Cc: Doniol-Valcroze, Thomas; Marentette, Julie
Subject: TR: Note de service au ministre sur le maquereau
Attachments: MECTS-#3766140-v3-2017 _ATLANTIC_MACKEREL_MANAGEMENT_MEASURES_JMedits_MC-YdL.DOCX

Martha,

Voir le commentaire d'Yves de Lafontaine dans la section Sciences.

Je suis d'accord avec son commentaire.

[redacted]

Martin

De : de Lafontaine, Yves
Envoyé : 25 avril 2017 13:25
À : Castonguay, Martin; Gilbert, Michel
Cc : Doniol-Valcroze, Thomas
Objet : RE: Note de service au ministre sur le maquereau

Bonjour à tous,

Je crois que nous devrions être plus direct et plus « sévère » dans le texte de la section des Sciences – c'est le seul endroit où nous avons un certain contrôle du message au ministre. Voir mon commentaire sur le fichier

Yves de Lafontaine

Directeur, Institut Maurice Lamontagne
Directeur, Direction régionale des Sciences
Pêches et Océans Canada / Gouvernement du Canada
Yves.delafontaine@dfo-mpo.gc.ca Tél. : 418-775-0555 / tél. cell. : [redacted]

Director, Maurice Lamontagne Institute
Director, Sciences regional directorate
Fisheries and Oceans Canada / Government of Canada
Yves.delafontaine@dfo-mpo.gc.ca Tel : 418-775-0555 / Cel. : [redacted]

Ma langue, une question de respect
My language, a matter of respect

De : Castonguay, Martin
Envoyé : 25 avril 2017 07:25

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À : Gilbert, Michel <Michel.Gilbert@dfo-mpo.gc.ca>; de Lafontaine, Yves <Yves.deLafontaine@dfo-mpo.gc.ca>
Cc : Doniol-Valcroze, Thomas <Thomas.Doniol-Valcroze@dfo-mpo.gc.ca>
Objet : Note de service au ministre sur le maquereau

Bonjour,

PVI voici l'ébauche de la note de service au ministre sur le TAC maquereau que Thomas et moi avons eu l'occasion de commenter. La Gestion des pêches recommande au ministre une hausse de 2000 t par rapport à l'an passé, soit un TAC commercial de 10 000 t à quoi s'ajoutent 6000 t de maquereau non-déclaré.

[redacted]

Martin

Martin Castonguay, Ph.D.
Chercheur et Chef de section Sciences pélagiques /
Research scientist Head of Pelagic science section
Institut Maurice-Lamontagne
Pêches et Océans Canada / Fisheries and Oceans Canada
850 route de la mer, C.P. 1000,
Mont-Joli, Québec,
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Tel 1 418 775 0634
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Fisheries and Oceans Canada
Deputy Minister

Pêches et Océans Canada
Sous-ministre

UNCLASSIFIED
2017-045-00376
EKME #: 3766140

MEMORANDUM FOR THE MINISTER

2017 ATLANTIC MACKEREL MANAGEMENT MEASURES
(FOR DECISION)

SUMMARY OF ADVICE TO MINISTER

This memo seeks your approval of the Total Allowable Catches (TAC) for the mackerel fishery in Atlantic Canada and Quebec, and outlines next steps for improved reporting and a rebuilding plan for this fishery. A map of Atlantic mackerel harvesting areas is provided at TAB 1.

On March 30, 2017, the Atlantic Mackerel Advisory Committee (AMAC) met to discuss the TAC levels and other key management issues for this fishery. A supplementary meeting for aboriginal groups was also held on March 28, 2017. At these meetings Science presented results of a recently completed peer-reviewed stock assessment for Mackerel in Canadian waters (TAB 2). Results from a new assessment model indicate that ~~while~~ the stock continues to remain in the critical zone. Stock projections are at the end of Tab 2.

AMAC was unable to reach a consensus on a TAC recommendation for the 2017 and 2018 fishery. Commercial harvesters and the provinces put forth recommendations to increase the ~~TAC~~ total catch to 20,000t or 36,000t, which also includes~~ing~~ undeclared catch, estimated at 6,000t per year under current monitoring. Aboriginal organizations suggested a closure of the fishery while it remains in the critical zone and non-government organizations requested implementing a low TAC.

Unreported landings in bait and some commercial fisheries and unknown harvests from the recreational fishery are continuing to impact the stock assessment. AMAC members agree that monitoring and reporting of catches for this fishery must be improved The department is actively undertaking measures to improve catch reporting for the commercial and bait fisheries in 2017 and beyond (TAB 3).

It is recommended that ~~that~~ you set the 2017 commercial TAC at 106,000t for one year. ~~This~~ This ~~would consist of 10,000t (representing~~ represents a modest increase from the 8,000t TAC set in 2016~~)~~ for the commercial fishery, and ~~the~~ with an estimated 6,000t for unreported catches, it would result in an estimated 16,000t total catch. ~~Consistent with the PA approach,~~ The Atlantic Mackerel stock ~~this harvest level~~ has a high probability of growth under this harvest level over the coming year, and it strikes a balance between projected positive growth of the stock and the economic importance of the fishery.

Comment [D1]: Issue of TAC versus total catch as noted by other reviewers.

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This should also encourage better reporting as well as promote participation in a rebuilding plan working group.

BACKGROUND

The Atlantic Mackerel stock is a trans-boundary stock found in both Canadian and United States (US) waters (map at TAB 1). Mackerel is fished in Canadian waters on a fully competitive basis, with an inshore/offshore split of 60%/40% respectively. There is no regional sharing arrangement in place. Fish that form the Canadian stock overwinter in the US waters.

The Integrated Fisheries Management Plan indicates a priority of access to licence holders with vessels less than 65' (the inshore fleet) for up to 60% of the Total Allowable Catch (TAC) over the licence holders member of the fleet having vessels 65' and over (the offshore fleet). The priority of access of the mackerel fishery given to the inshore fleet was an initiative to help protect the inshore sector and traditional inshore markets and includes a consideration to allow the inshore fleet to continue to harvest even after they have 60% of the TAC if the >65' fleet had not harvested all of their 40%.

Total reported commercial landings in Atlantic Canada have decreased significantly in recent years, from a high of 54,621t in 2005 to record low 4,145t in 2015. During the same time frame, TAC levels have followed the landings trajectory and resulted in a reduction from 36,000t in 2013 to a low of 8,000t per year over the past two years. The TAC ~~was not restrictive on~~has never limited landings until 2016.

In 2016, the TAC was reached and the fishery was closed in season for the first time ever. Commercial landings averaged just over 5,000t per year in 2014 and 2015. Significant catches by the Newfoundland inshore fleet, with the majority in 3K, in early October 2016, lead to a closure the fishery. It is important to note that the appearance of mackerel in 3K is not typical and it appears periodically.

There was significant negative reaction following the closure of the mackerel fishery as the offshore fleet (>65' large seiners) did not have an opportunity to fish in 2016 as they were just starting when the Department closed the fishery. Harvesters in 3K indicated that there was a large stock of mackerel still in the waters in this area when the fishery closed.

The decision to allow the inshore fleet to continue harvesting without some consultation with the >65' fleet has resulted in a Judicial Review (JR) by the >65' purse seine licence holders who are seeking damages, for loss of fishing opportunity based on the Department's decision in 2016.

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[redacted] Science developed a new model for the most recent assessment which account for undeclared catches. The new model . ~~This new stock assessment has shown~~shows some stock growth ~~in recent years~~since 2012 and that there are some early signs of good recruitment coming into the fishery.

The ~~Science's has recently undertaken a new~~ stock assessment, includes~~ing~~ a range of harvest scenarios and associated growth projections, and developed a Limit Reference Point for Atlantic mackerel (TAB 2). ~~While the new assessment shows some early positive signs of growth since 2012, t~~The stock is still well within the ~~critical~~ critical zzone as defined by the Precautionary Approach (PA) Framework. ~~The scientific model provides a range of harvest scenarios with associated growth projections.~~ It is understood that ~~considering the stock is in the critical zone,~~ total catches (undeclared and declared) should not inhibit continued growth with an aim of getting out of the critical zone. Declared catches (addressed by TACs) represent~~s the number of~~ commercial landings and some bait catches~~;~~, while undeclared ~~represents~~ catches ~~that~~ are unreported from some commercial and bait fisheries as well as recreational harvests. There are currently no restrictions on the amount of catch and no closed season for recreational harvests of mackerel. Science continues to note concerns with undeclared harvests, which could be significant given the current low biomass. It is important to note that as reporting ~~is~~ should improve~~d~~ this year, the level of undeclared catch should decline and declared catches would rise by the same amount. Therefore, with better reporting over time, a higher portion of the overall catch would be available for the commercial fishery.

Results of the stock assessment were presented at AMAC. While the new model was viewed more favorably by stakeholders than the previous model,~~;~~ industry was of the view that it severely ~~underestimates~~ underestimated the overall biomass. Fishermen have reported a significant number of small fish throughout the Gulf of St. Lawrence in 2016 which could be the sign of good recruitment.

At AMAC, commercial harvesters put forth recommendations to increase ~~the TAC~~total catch to 20,000t or 36,000t, inclusive of undeclared catch; however, these levels do not promote growth of the stock in line with DFO's ~~Precautionary Growth~~PA Framework. Aboriginal groups suggested a closure of the fishery while the stock remains in the critical zone; while the Ecology Action Center and the World Wildlife Fund have requested a low ~~TAC~~ total catch (declared and undeclared) of 8,000t while the stock remains in the critical zone.

The AMAC normally meets every two years and the management measures, including TAC, are established for a two-year cycle. However, the Committee has requested a one year TAC for 2017 and to revisit the management plan for 2018 despite no new assessment ~~will be~~being undertaken until 2019.

[redacted] The current TAC for the US is currently set at 9,822t for 2017.

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[redacted] Science is working with their southern counterparts on a Canada/US joint stock assessment for 2019.

STRATEGIC CONSIDERATIONS

Harvesters will not react favorably to a TAC of ~~16~~10,000t as it is far below requests from industry, particularly in NL where a 36,000t ~~TAC~~ total catch was recommended. Based on migration, the fish arrives last in NL, typically in late September after other provinces have had several months of harvesting. ~~T~~the Department recommends ~~is of the view that~~ a more conservative ~~16~~10,000t TAC, allowing a high probability of growth. ~~would keep fishing mortality numbers within acceptable scientific limits, consistent with the PA framework of above 75 percent probability of growth, at 77 percent specifically for this harvest level.~~ This represents a balance between projected positive growth in the stock, yet recognizing the economic value of the fishery and its importance as a bait source. ~~This~~ A slight increase in TAC may encourage better reporting and support industry participation in a rebuilding plan for the fishery. This conservative approach is also in line with the government mandate that all fisheries management decisions be supported by sound science.

Comment [D3]: This information is repeated in the Science Advice section; removed for brevity

There may be some negative interaction, including from non-government organisations, to the small increase in TAC. According to the Department's PA Policy, removals should be kept at the lowest possible level when a stock is in the critical zone.

A TAC of ~~16,000t comprises~~ 10,000t for the commercial fishery ~~and 6,000t for undeclared catches. This~~ represents only a modest increase in the TAC ~~for the commercial fishery~~ from 8000t in 2016. Better reporting in 2017, most specifically in the Southern Gulf, should result in upwards of 1,000t moving from undeclared to the commercial declared category.

~~The department~~Science has undertaken a genetic study of ~~genetic~~ mackerel in the 3K area, to investigate whether ~~which hopes to address views that~~ mackerel in this area could be from the European stock, which has strong population numbers. Results are expected to be available in late summer 2017. [redacted]

Undeclared harvests in the bait and recreational fisheries continue to represent a challenge in the assessment and management of the fishery. The department is currently analysing options for the inclusion mackerel as a potential stock to be included under Marine Recreational Fishing Licence for Eastern Canada to establish harvest limits and improve reporting of this fishery. [redacted]

In 2016, harvesters were critical of the rapid and unexpected closure of the fishery. In order to mitigate this situation next season the Department has started implementing measures to enhance monitoring and timely data collection, particularly in the Gulf and Maritimes Regions (Regional summary table of monitoring Tab 3). In addition, the department intends to hold a conference

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call with AMAC when 50-% of established commercial TAC is reached to update the Committee on landings, to consult on priority of access on the inshore/offshore split of 60%/40%, and if available, provide results of the genetic study on mackerel in area 3K. [redacted]

~~The~~ AMAC normally meets every two years and the management measures, including TAC, are established for a two-year cycle; however, the Committee has requested a one-year TAC for 2017. As such, the department plans to hold a conference call with AMAC, as requested in winter 2018, to review the 2017 harvest and evaluate the effectiveness of new reporting requirements.

In September 2014, Atlantic mackerel was put on a priority list by the Committee on the Status of Endangered Wildlife in Canada given the rate of decline in the stock. The 2016 audit of the Commissioner of the Environment and Sustainable Development identified Mackerel as a stock in the critical zone requiring a rebuilding plan as part of the Integrated Fisheries Management Plan (IFMP) The department has already received widespread support from industry stakeholders to participate in a rebuilding plan working group for the mackerel fishery which will convene late spring/early summer 2017. The IFMP for Atlantic mackerel, which has been in effect since 2007, will be updated in advance of the 2019 AMAC meeting.

SCIENCE ADVICE

A stock assessment for Atlantic Mackerel was conducted March 8-9, 2017. The current spawning stock biomass was estimated at 48,000t for 2017, lower than the Limit Reference Point of 103,000t, placing ~~Atlantic M~~mackerel in the ~~Critical~~ critical ~~Zone~~ zone of the ~~Precautionary Approach~~PA framework. The model ~~It was~~ estimated that unreported/undeclared catches (recreational, bait, discard mortality and a portion of the American landings) averaged approximately 6,000t in recent years, in addition to commercial landings. This means that with a commercial TAC of 8,000t, total landings, including the undeclared estimate, were estimated to be ~~approximately~~ 14,000t in 2016. According to the assessment, ~~Atlantic M~~mackerel spawning stock biomass has increased slightly since reaching a historical low in 2012. ~~DFO~~ Science has recommended that, because the stock is still ~~remains~~ in the critical zone, total catches (declared and unreported) should be lowest as possible ~~enough~~ to facilitate stock recovery. ~~DFO~~ Science has also noted that improved data collection on unreported catches is a priority.

~~Modelled stock projections over a two-year assessment period (2017-2019) indicate that total landings of 16,000t (10,000t TAC and up to 6,000t undeclared catches) would result in a 77% probability that the Atlantic Mmackerel spawning stock biomass would continue to increase in abundance over current levels. This corresponds to a high probability of growth, as defined in DFO's Precautionary Approach~~PA ~~framework (high = 75-95%).~~

~~DFO Science has also noted that improved data collection on unreported catches is a priority.~~

INTERDEPARTMENTAL CONSULTATIONS

[redacted]

Field Code Changed

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No interdepartmental consultations were required.

INDIGENOUS CONSULTATIONS

Indigenous groups are represented as members on the Atlantic Mackerel Advisory Committee. In addition, a supplementary meeting was held to permit additional consultation with indigenous groups.

Comment [D5]: Can this be abbreviated to AMAC?

EXTERNAL CONSULTATIONS

The Department consulted with representatives of the mackerel industry, including harvesters and processors, industry associations, the Atlantic Provinces and Quebec.

ADVICE AND RECOMMENDATIONS TO MINISTER

It is recommended that you approve a~~t~~ TAC of ~~16~~10,000t ~~(consisting of 10,000t for the commercial fishery and 6,000t for unreported catches)~~ for the Atlantic Mackerel fishery for 2017.

The Department will establish the process to review the fishery when landings reach 50% (5,000t) of this established commercial TAC. Additionally, a Mackerel Rebuilding Plan Working Group will be convened that will focus on setting an ~~upper~~ Upper ~~stock~~ Stock ~~reference~~ Reference point as well as harvest control rules to support rebuilding this stock into the healthy zone of the PA Framework. A meeting of AMAC will occur, via conference call, in the spring of 2018 to solicit industry advice for 2018.

Media lines will be prepared in response to the release of TAC measures.

Catherine Blewett
Deputy Minister

Kevin Stringer
Associate Deputy Minister

☐ I concur with the recommendations

☐ I do not concur with the recommendations

Dominic LeBlanc
Minister

Minister's Comments:

1) Attachments:

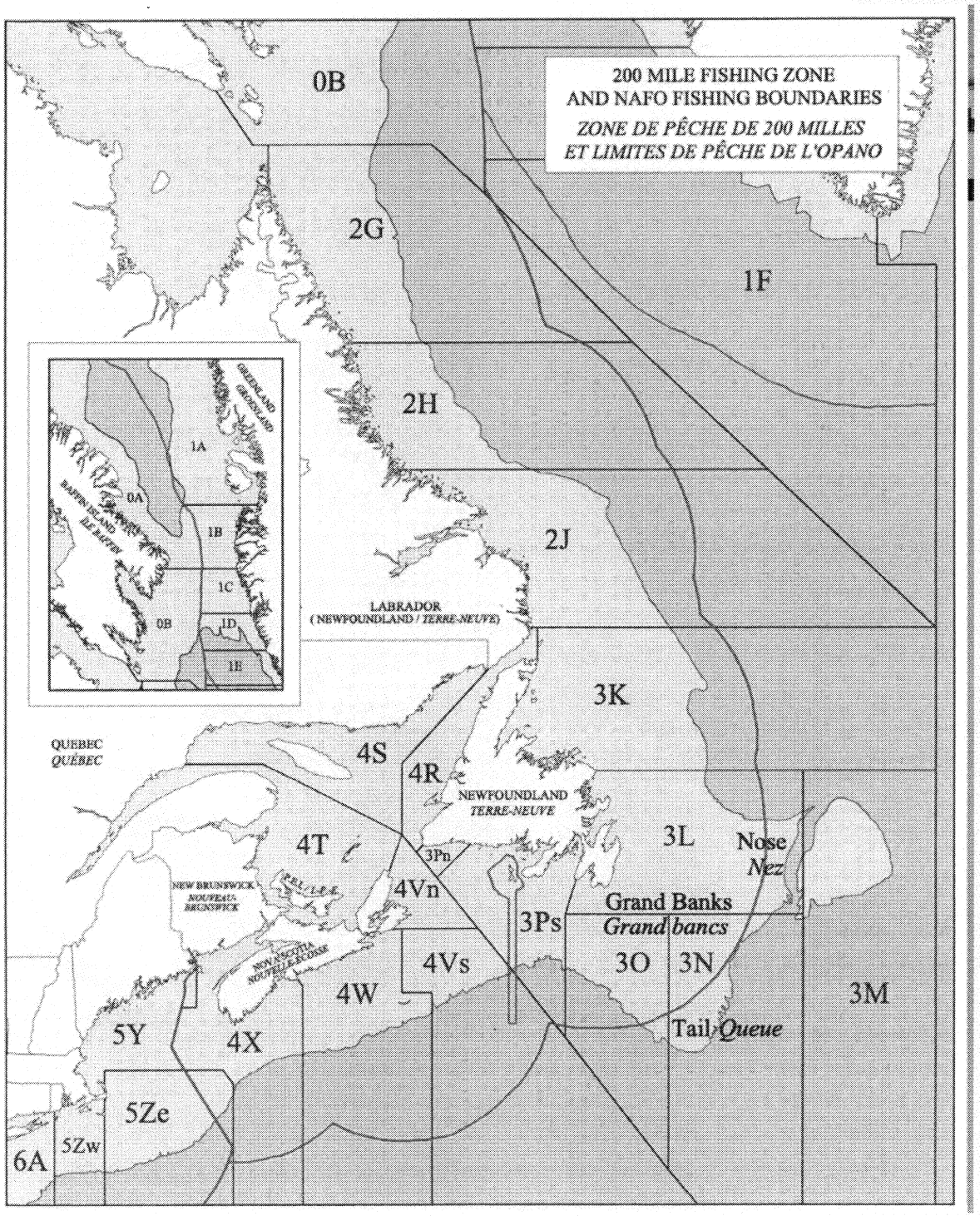
Field Code Changed

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TAB 1

NAFO



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Blewett, Catherine

From: Stanek, Frank
Sent: April-25-17 12:18 PM
To: Gareau, Laura; Lavigne, Kevin; Blewett, Catherine; Strickland, Alexandra
Cc: NL Media / Médias TNL (DFO/MPO); MacNeil, Vince; Gillis, Sheldon; Hopkins, Lillian; Patrick, Lindsey; Gillis, Paul; Burns, Adam; Lapointe, Sylvie; Lamar, Anne; Marsden, Dale; Strickland, Alexandra; Trudeau, Miriam; Knight, Morley; Anderson, Kevin; Woodford, Jan; Williams, Wendy; Boriel, Michele; Walker-Sisttie, Rhonda; Horgan, Carole; Perron, Heloise; Fagan, Ashley; Beamish, Kayla; Smith, Kathleen; Saindon, Carole; Chow, Vance; Gilbert, Sarah; Nielsen, Ingrid; Parent, Sonia; NCR Socialmedia-Mediassociaux RCN (DFO-MPO); 'Adine.Patterson@pco-bcp.gc.ca'; Sharzer, Stephen; Costain, Darren; Laporte, Dominic; Birba, Rose-Gabrielle; Goetze, Darren; Baldwin, Jennifer
Subject: NL Protest Regional update, Tuesday, - Noon m. (EST)

Good afternoon. As mentioned, nothing significantly new on social media.

Frank

—

Headlines from VOCM Open Line. Transcript of CBC interviews with Keith Sullivan and Richard Gillett. Nothing significantly new on social media.

Headlines:

VOCM Open Line - Tue, April 25, 2017

FISHERY PROTESTS: Host Preamble - Richard Gillett's hunger strike is over and he is okay. The protests are a FISH-NL issue, even though the concerns voiced are industry-wide. The conversation needs to focus on DFO science and management, and the custodial management should be front and centre. The FISH-NL group questions the representation they have been getting from the FFAW. The FFAW granted a meeting, but not with media present as the protestors requested. FFAW President Keith Sullivan said they closed the offices yesterday because they were warned of threats. VOCM - St. John's - Open Line @ 09:11:05am Duration: 00:03:50 Reporter: Paddy Daly

THE FISHERY FIGHT CONTINUES: "Richard Gillett" is relieved that his hunger strike is over, but he says the fight is far from over. Fish harvesters showed up at the FFAW building to protest yesterday, wanting to meet with officials, and Richard says they were not from FISH-NL, but rather they were concerned FFAW members. A big issue among the harvesters is the FFAW's lack of transparency. The fishers want to know what was presented to Ottawa on their behalf, but the union has not officially released it to them. Another issue of concern of the fish harvesters is that the process used by the FFAW to get their majority decision to close the herring fishery in Bonavista Bay. Mr. Gillett says he would love to be kicked out of the FFAW so he could move on with FISH-NL. In relation to the protest at the FFAW offices yesterday, he feels a great deal of pride for them to remain peaceful because often the fishers get angry and things turn ugly. He says that some DFO workers said to the protestors that it is about time they hold these protests because change is needed, and that speaks volumes to Mr. Gillett. VOCM - St. John's - Open Line @ 10:06:30am Duration: 00:17:00 Reporter: Paddy Daly

FISHERY PROTESTS: "Vick" offers his appreciation for what Richard Gillett did on behalf of the province's fishermen. He feels Mr. Gillett is a catalyst to wake up the people of Newfoundland. He says if we don't get the inshore fishery issues straightened out, we may end up with no rural community left at all. Vick doesn't feel we have properly diagnosed what is wrong with our fishery and that he lays blame mainly with the foreign fishers. VOCM - St. John's - Open Line @ 10:52:00am Duration: 00:07:00 Reporter: Paddy Daly

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FFAW DOES NOT STICK UP FOR THE FISHERMEN: "Conway Caines" believes there should be media present at the meeting offered by the FFAW tomorrow so they can't get away with anything. He says the union is not standing up for the fishermen and yet they can't get out of the union. He wants the government to remove the legislation which is holding them captive with the FFAW.
VOCM - St. John's - Open Line @ 11:27:00am Duration: 00:03:30 Reporter: Paddy Daly

Facebook:

By Norma Wilbur Dean to Support Richard Gillett group

Only 2286 members. Most of whom are not fisher people. Every fisherman in NL should be on here by now. Unity. So get the lead out. You are the ones who stand to reap the benefits once this war has come to an end. Without your support, this battle will be lost. The Liberal Elite will once again claim victory. They have us in their back pockets,. Stephen Harper did nothing for us because he knew that we would never change our stripes, and Justin Trudeau will do nothing for us for the same reason. We only get what we fight for. Always was that way. Seems it is still so.

Transcripts:

CBC interview with FFAW president, Keith Sullivan:

KRISSY HOLMES: Well fishermen who support FISH-NL organization took their protest to the front doors of the fisheries union headquarters yesterday. Some of them threatened to pull the doors open and they demanded a meeting with leaders of the Fish, Food and Allied Workers. Now the FFAW agreed to a meeting with Harvester's tomorrow but the protesters walked away when the union refused to allow the media to sit in on that meeting. Keith Sullivan is the President of the FFAW and he's on the line. Good morning.

KEITH SULLIVAN: Good morning Krissy.

KRISSY HOMES: So Mr. Sullivan what was your reaction when the FISH-NL protest that landed directly on your doorstep yesterday?

KEITH SULLIVAN: Well we had spoken with the RNC the night before who said you know about certain threats of violence and vandalism and things like that. So I know the DFO offices were closed and our office was actually closed yesterday so there was nobody inside the building at the time. And you know it's obvious that I mean know the FISH-NL organized this protest and it's in an attempt to really drum up support where they haven't had much success in in their own union drive. So I feel that a desperate attempt and it's going down the wrong path. And when it gets to a point where there's threats of violence and vandalizing buildings and things like that, that is not an environment for constructive discussions about how we're going to improve our fisheries for the future that's for sure.

KRISSY HOLMES: So police obviously felt that there was enough of a threat there to give you the heads up.

KEITH SULLIVAN: Yes. And there's been a few different forums where we've seen threats of violence and so we obviously have to take that very serious. It's too bad as it certainly comes to that but we spoke with the RNC and they you know they were certainly concerned as well.

KRISSY HOLMES: So the reason that they were there was because they wanted, they wanted a meeting with you. They wanted a meeting with union officials. And you in the end agreed to a meeting with harvesters but not FISH-NL. So just to clarify who exactly will you be meeting with tomorrow?

KEITH SULLIVAN: Well at this point we said we would meet with some harvesters you know among them obviously are supporters of FISH-NL but just to be clear Krissy, I mean we do hundreds and hundreds of meetings every year and

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we've met with many of these people in different venues, in different places throughout the province. So yesterday while this was happening we spoke with our elected executive members and we followed that up by a call with our elected inshore council members which basically is representative for a geographic region. So I mean that's thirty five people roughly who are elected every three years or so I mean these are elected by their peers and we had discussions about certainly how to handle this. And we, by the time we could get some executive in we suggested a meeting for Wednesday. You know we always meet with people but we had no advance ask as of yesterday about a meeting so it came in the form of a protest so as you can understand we weren't, we weren't at the building and weren't prepared and able to meet yesterday.

KRISSY HOLMES: So one of the things the protesters wanted was for the media to be present at that meeting. The union doesn't want that. Can you tell us why not?

KEITH SULLIVAN: Well again this protest is all organized by FISH-NL. They are looking to draw support to make it a you know really a display or something like that. I mean this is not about a constructive discussion. So if we want to have a constructive discussion obviously we make ourselves available to media all the time to communicate what happened and what happened in the meeting and to really make something of a spectacle is not really what we're interested in. So obviously happy to meet with members but to have a spectacle and something that's only going to your know further embarrass our industry or something like that so we have no interest in doing that Krissy and I think most of your listeners will understand that.

KRISSY HOLMES: So that constructive meeting is set to take place tomorrow. So from your point of view I mean what has to be accomplished in that meeting?

KEITH SULLIVAN: Well right now it hasn't been made clear what certainly people are interested in from that meeting but again like you know many people are with FISH-NL and supporters of them there which we know most harvesters are not there. And we're also meeting with many of other of our members as well I mean this one obviously got focus yesterday but we're in constant contact with the Fisheries Minister's office to try and get real solutions to the challenges we have which are mostly from a changing environment. So we're looking to get access to the fish where the stocks are growing that are you know represent real opportunities for harvesters whether that's northern cod or whether that's mackerel or whether that's halibut in some cases so there's opportunities out there we understand are challenges and that's really what the work of the council as I mentioned before and the hundreds and hundreds of volunteers on committees that we work with the FFAW are encouraging us to do now.

KRISSY HOLMES: Yesterday your union issued a fairly I guess an inflammatory statement saying you know accusing FISH-NL of pitting harvesters against harvesters promoting lies, misstating facts, fuelling an environment of tension. I mean given all of the unrest inside the industry right now I mean how do you move forward in light of the internal politics?

KEITH SULLIVAN: Well it is definitely making it difficult. There's no doubt about that. And I've said before that when we've seen success as Newfoundlanders and Labradorians in this industry is when we work together and just last year we cited good change to policy on shrimp that got rid of LIFO that put more money in the pockets of inshore harvesters. We had hundreds and hundreds and in the case of thousands of people it would demonstrate and that was all working together. We've got a Minister to the first hundred fifteen thousand pounds of an order on northern cod to be inshore, that was working together so that's what we're being encouraged to do still by our members and I think most people understand that's the route to get some positive change and trying to create a chaotic environment for a union drive that's not going so well I think people will see that FISH-NL's route is something that's not going to be helpful.

KRISSY HOLMES: Okay, Mr. Sullivan will have to leave it there. I appreciate your time this morning.

KEITH SULLIVAN: Thanks very much Krissy.

KRISSY HOLMES: Keith Sullivan is President of the Fish, Food and Allied Workers Union.

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CBC interview with Richard Gillett:

LEIGH ANNE POWER: Richard Gillett is back home in Twillingate recovering from his hunger strike of 11 days. He was taken to hospital on Sunday after refusing to eat on the grounds of the Department of Fisheries and Oceans offices in St. John's. His demands included an independent review of the science used by DFO, a review of the relationship between the FFA W and the Department of Fisheries and Oceans and a meeting with Minister Dominic LeBlanc. And Richard Gillett joins me now.

LEIGH ANNE POWER: Good morning.

RICHARD GILLETT: Good morning, Leigh Anne.

LEIGH ANNE POWER: How are you feeling right now?

RICHARD GILLETT: I'm coming around but I can tell you know that I've seen the most beautiful sunrise this morning come up out of the water from my home and rise up over the harbour that's filled with ice this morning, tosee a good spring morning and I can say I think it was the most beautifullest one that I've ever seen.

LEIGH ANNE POWER: That's worth living for right there.

RICHARD GILLETT: Yes it is.

LEIGH ANNE POWER: Take me back through the 11 days when you were on hunger strike. What were your feelings and how did they evolve during that time?

RICHARD GILLETT: Leigh Anne, we went to Ottawa Tuesday and Wednesday before Thursday I started the hunger strike to meet with four ah, seven Newfoundland caucus members to put a proposal in on behalf of FISH-NL on moving the fishery quota in this crisis time that we're in you know the Newfoundland caucus accepted everything very welcomely and took everything under advisement but we didn't get a meeting with the Minister. And we were very shocked that at this time, this turmoil times with cuts being 50 or 60 percent in some species that we really, we thought that a it warranted you know the Minister of Fisheries attention. So anyway I came down and I was on the plane coming down I said no, by God there's got to be something, there's got to be something other than violent demonstrations to bring attention to the issue. So anyway I came out with it and Ryan wasn't aware of it. The next morning I came into office and I said Ryan, I said I've got the tent in the back, I got all what I'm going to eat in the back and he said what have you got to eat? And I said well I got water. I said I'm going on a hunger strike. So anyway from that it was born and I can tell you through all of this that Ryan Cleary and my wife has been to rocks support me to this. And anyway I was not prepared to kick that can down the road anymore. I've bent over and I picked up that can and I put it in my pocket and this issue has to be dealt with and I can tell you it's being dealt with now after 11 days.

LEIGH ANNE POWER: What was your lowest moment at that time?

RICHARD GILLETT: There was a lot of lows and there was a lot of highs. And you know I'd be emotionally drained sometimes and I get a call from a fisherman on the West Coast, South Coast or wherever telling me of his plight with his family, he's been at it all his life and to a point where he is not going to be able to make his payments. And you know he's going to lose his boat and license and things like that. And that would make me more determined than ever. You know that's what kept me going is the support and the calls and everything. And I can't thank people enough for the support and the calls and everything and that is really what kept me going through the 11 days because if anybody knows me is I couldn't go from breakfast and dinner without having a lunch.

LEIGH ANNE POWER: Hahaha.

RICHARD GILLETT: Just goes to show when you get something in your mind that you really believe in and it shows that you can have determination to accomplish anything.

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LEIGH ANNE POWER: Your protest ended on Sunday when they took off in an ambulance. What was it that prompted the end of your hunger strike?

RICHARD GILLETT: I didn't ask for the ambulance but you know I was at a very weak state. You know my wife was like I mentioned by my side, Ryan was by my side the whole time. And really I couldn't put up a fight to do stop them. They said enough is enough. You know they used to read comments and things for me every night because I couldn't focus my eyes where my sugar was fooled up but I can assure you that they read thousands of comments to me every night and I wanted to hear everyone. So you know they were very concerned about my health very concerned and they should have been. But they made the decision to get me off the hill.

LEIGH ANNE POWER: You had health problems when you went into this. Have the have those been made worse by this experience?

RICHARD GILLETT: I don't know yet you know I was checked out Sunday evening at the hospital and I had bloodwork and that and it all came back normal which was really a good thing. But I can tell you when I was in the hospital I asked the doctor can I eat something now and he said Boy all be got around here you know is soup and something like that and I sad well anything will do and I think Leigh Anne I had the best bowl of soup I think I ever had in my life in that hospital that night.

LEIGH ANNE POWER: Well you know what I was reading about this while you were doing the hunger strike I was reading about the effects that a hunger strike can have on the body and i was reading that after two or three days you don't feel hunger pangs anymore, is that true?

RICHARD GILLETT: Sure it is true, it is true. And that was one of my worries going in and I said well you know my stomach hurts and gurgles and everything else while you're waiting for supper. And I was thinking and I said oh my God how can I handle this for days and things like that. But yeah it do go away. It do go away and but the thing is this is my determination was more my determination was more stronger then the hunger pains. But Leigh Anne now, now we get our hunger strike done. We need to move forward. You know I'm starting to get back to health now. We did accomplish a lot. But right now we need to look to the future. Yesterday I spoke to the crowd and I thanked them for coming out. I was very weak but I think it was something that I really, really had to do is take the people of Newfoundland and Labrador and those people that stood with me on the hill and you know and then the group of people the fishermen decided to go to the FFAW building and demonstrate down there you know in the end the media is portraying this mission set up and a group to go to the FFAW buildings and I can tell you Leight Anne that yesterday it was one hundred percent fish harvester driven, the demonstration at FFA building. They were trying to set up a meeting and they wanted to know if ah, if FISHNL wanted to attend that meeting. And I can tell you right now that FISHNL does not want to meet with the FFAW. Ah we have been going down and down and down under the leadership of the FFAW. And I can tell you in no way that we want to negotiate with a group that's dragging down Newfoundland and Labrador fishery. It's like ah you know we're to the point right now is a crab on the bottom. Everybody knows that for a crab to grow he has to shed his skin, his shell to grow. Well I can tell ya we've been cramped up in that crab shell for long enough. It's what you'd call the FFAW and I can tell you now that shell is shed and gone and we're going to grow in this fishery under FISHNL with the support of the fish harvesters in Newfoundland and Labrador which that movement is growing now and with every Newfoundland and Labradorian. We need to keep this fishery right now Leigh Anne in the forefront. And we will do that because I can tell you there is information coming in to me right now from people that before was, was hesitant to bring that information out. We had Dr. George Rose on the broadcast yesterday. Brilliant man. You know we talked about Iceland. We need to look at Iceland's model for the fishery to take politics out of the fishery. And I couldn't agree more. I know we're trying to start a new union but I think DFO should be on its own manager on the merits of science and managing the stocks not to be pressured to issue more quota for this group or that we're like we are right now because that is the mess that we're in. So Leigh Anne, I like for to let your listeners know out there that there is there is information coming in to make us go forward and some really, really good ideas to move this fishery forward. And people like Dr. George Rose need to, to ah people need to stop having in trying to put them under their thumb and let the man speak his mind.

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LEIGH ANNE POWER: Now you did get a lot of attention for your hunger strike it was all over in the international press and everywhere but the feeling is that now that you've stopped the hunger strike that it will slip out of the public view. So what do you do next?

RICHARD GILLETT: Leigh Anne, I'm going to tell you right now that this is not going to slip out of the public's view. I never let that ever as long as I told the crowd yesterday that there is breath in my body. This will not slip out of the view of ah, the people that it matters to off their radar again. And I like to you know again ask for continue support of Newfoundland and Labrador because this kind of woke everybody up that you know I, I've done a demonstration alongside of a country ribbon chicken plant. And you know those people in you know down by Quidi Vidi Lake is really not in a fishing village. But I can tell you there's a damned good many pieces of that chicken that comes from that factory that goes to Joe Batt's Arm, or it goes to Twillingate or goes to St. Anthony or whatever that keeps that plant living. And I think that's what this done. Is bringing the reality to a forefront that the fishery affects everybody whether you realize it or not. And we need everybody's help to get this province into a healthy state so everybody can prosperous and again yesterday on the media I didn't send out to thanks to Paul Lane. I'd like to do that this morning. He was a very big supporter and a man came down to see me at the tent. And he was there when I got carried out on the ambulance. I couldn't see anybody at the time but again I'd like to thank him for his support on this issue and he's in Mount Pearl MHA. And he told me this story about you know the fishery affected Donovans when it closed down. You know and people realize that the fishery as warehouses in Donovans. So people have got to realize that the fishery has got long tentacles everywhere and we are in this all together. And like I say there is information coming out right now. You know Leigh Anne, get me information I got home and the mail came and I tell you I had a stack of mail and one thing in that mail that I read this morning was very, very troubling. You know we were in times of I heard stories about yesterday that people came over from the West Coast that get a loan and money to come that own fifty foot boats.

LEIGH ANNE POWER: Wow.

RICHARD GILLETT: And fished all their lives. That's a bad situation as well.

LEIGH ANNE POWER: Well Richard. We're heading in the news I got to let you go. But listen man it's a pleasure to speak with you. Thank you so much for taking the time.

RICHARD GILLETT: Again Leigh Anne, thank you very much. And again I'd like to thank everybody from the bottom of my heart for the support but I still need that support. Going forward to make the changes that need to be made.

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Blewett, Catherine

From: Lapointe, Sylvie
Sent: April-25-17 1:54 PM
To: Blewett, Catherine; Anderson, Kevin; Stringer, Kevin
Cc: Burns, Adam; Hopkins, Lillian
Subject: Upcoming key Newfoundland fisheries issues
Attachments: Information on Key NL Fisheries.docx

Hi – we talked about pulling together a calendar of fisheries issues in NL. Attached is what it looks like. If you agree, we can share with MINO.

Sylvie

Sylvie Lapointe
A/Assistant Deputy Minister Operations, Ecosystem and Fisheries Management
Sous-ministre adjointe opérations intérimaire, Gestion des écosystèmes et des pêches

613-990-9864

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s.21(1)(b)

Information on Key NL Fisheries

Gulf Halibut

1) Timing on decision:
   - Fishery opens May 15th. Fleets will start fishing May 15 (subject to ice)

2) Inshore perspective / expectation:
   - FFAW proposed a 1500t TAC (~ 50% TAC increase). Supports the need for Long Line and tagging survey in order to evaluate status of SSB and develop a PA.

3) Other considerations:
   - FFAW and most other stakeholders support a Use of Fish allocation for the new survey work (e.g. 50t). FFAW has proposed that the 50t be allocated based on current shares amongst the inshore fixed gear fleets. Gaspe fleets have supported this proposal. Coordination of the survey remains at issue but does not need to be resolved before the TAC decision.

Northern Cod

1) Timing on decision:
   - Fishing targeted to start as per the approved management plan (e.g. May/June proposed by FFAW)

2) Inshore perspective / expectation:
   - NL Groundfish industry Development Council presented a 2017 Stewardship fishery management plan at the advisory meeting in early April. [redacted]

3) Other considerations:
   - While the stock is showing signs of improvements, DFO stock assessment in March 2016 indicated the stock is still in the lower half of the critical zone. The April 2017 science update noted that abundance and biomass indices from the autumn DFO survey in 2016 continued an increasing trend since 2012 and the 2016 the biomass index was 7% higher than in 2015.
   - The House Standing Committee has tabled their report on Northern Cod March 20, 2017 which calls for emphasis on the precautionary approach a long term stock rebuilding considerations in management decisions to ensure sustainability of the northern cod. A Government Response is being prepared for tabling in early June.

Mackerel *CAN BE DELAYED BY A FEW WEEKS*:

1) Timing on decision (what's outstanding and real drop dead dates on announcement/fishery opening)
   - Varies by Region, Maritimes is the first to open. The Department would like TAC by May 15, with fishery open as soon as decision is made. In 2016, the first recorded catchers were second week of May in the Maritimes. This year, there have already been numerous requests to open the fishery in the Maritimes Regions.

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- In Newfoundland, the fishery opens on various dates for fixed and mobile between August 1 and September 2; however, mackerel typically shows up late September –October. Quebec opens June 1 and Gulf May 15.
- The fishery has opened in the past without a TAC announcement. If the Maritimes opens the fishery. We don't see any negative implications to this.

2) Inshore perspective / expectation – Expectations are that fishery should open very soon.

- There will likely be a negative reaction with a TAC announcement of 16,000t, particularly in NL where a 36,000t TAC was recommended by harvesters. Commercial harvesters and the provinces put forth recommendations to increase the TAC to 20,000t or 36,000t including undeclared catch estimated at 6,000t per year under current monitoring.

3) Other considerations

- There are ongoing protests and it is a challenging time to communicate effectively. There is a significant amount of media coverage on the fishery.

Moving the Greenland halibut 0B fixed gear competitive fishery (900t) to ITQs *CAN BE DEFERRED TO 2018*

1) Timing on decision:

- The competitive fishery traditionally opens first week of June (subject to ice).

2) Inshore perspective / expectation:

- There are 3 different fleets (inshore, mid-shore and SLL >100) with access to the 900t fixed gear competitive fishery which includes indigenous enterprises from both Newfoundland (Labrador Innu) and Nunavut (Inuit).
- There are 5 inshore Newfoundland harvests represented by the FFAW. The majority of the inshore NL harvesters do not want to move to ITQs given their newly acquired access and limited catch history.
- Both the Innu and Nunavut Inuit enterprises support moving to ITQs but views on sharing (adjacency vs catch history) are divergent. (200t vs 360t for adjacency).
- Others support only a 10% amount for adjacency or maintain the competitive regime.

3) Other considerations:

- DFO has been working with stakeholders on moving this fishery to ITQs for several years. The decision triggers Nunavut land claims obligations and any amount set aside to accommodate obligations of the Nunavut Agreement will proportionally reduce resulting ITQs for NL and other harvesters. Thus the decision to move to ITQs brings into play promoting indigenous fishing opportunities vs inshore NL economic opportunities. Move to ITQs for 2017 season requires a decision before June 1. Alternatively, the department can maintain the competitive regime for 2017 and defer the decision to move to ITQs to next year.

Seals *CAN BE DEFERRED TO LATER IN 2017 AS HARVESTING NEARLY DONE*:

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1) Timing on decision (what's outstanding and real drop dead dates on announcement/fishery opening
    - The harvest of grey seals has ended for the season. There are currently no further plans to harvest grey seals in the near term; however, the harvest may continue later in the fall.
    - The harp seals fishery has started and approximately 52,000 seals were harvested as of April 20th. It is expected that landing amounts per day will slow as harvesters move to other species (crab etc).

2) Inshore perspective / expectation
    - [redacted]

3) Other considerations
    - From a communications perspective, media related inquires have dropped off significantly. If there are inquiries regarding the TAC announcement, Communications have lines prepared to address the sustainability of the resource and no ministerial decision.

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Cormier, Mélanie

De: Deslauriers, Marcelle
Envoyé: 25 avril 2017 14:12
Cc: Rivierre, Antoine
Objet: Maquereau zone 16 (étiquettes) - Area 16 mackerel (tags)
Pièces jointes: Maquereau 16 - Avis aux pêcheurs - 2017-04-13 (vE).docx; Maquereau 16 - Avis aux pêcheurs - 2017-04-13 (vF).docx

(English follows)

Bonjour,

Veuillez prendre note de *l'Avis aux pêcheurs* ci-inclus concernant l'abandon de la mise en œuvre d'étiquettes en 2017 dans la pêche au maquereau de la zone 16.

Please review the Notice to Fishers included concerning the postponing of tags implementation for area 16 mackerel.

Cordialement,

De la part de / *for* Antoine Rivierre

Marcelle Deslauriers
Agente régionale, Direction de la gestion de la ressource et de l'aquaculture
Pêches et Océans Canada – Région du Québec | Gouvernement du Canada
Marcelle.Deslauriers@dfo-mpo.gc.ca / Tél.: 418-648-3554 / Téléc. : (418) 648-7981

Regional Agent, Resource Management and Aquaculture Division
Fisheries and Oceans Canada – Quebec Region | Canada Government
Marcelle.Deslauriers@dfo-mpo.gc.ca / Tel.: 418-648-3554 / Fax. : (418) 648-7981

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Notice to Fish Harvesters

BLUE MACKEREL – AREA 16 – QUEBEC FLEET
VALID TAGS

Québec – April 13, 2017

Fisheries and Oceans Canada – Quebec region informs area 16 mackerel licence holders from the Quebec Region using a gillnet that the implementation of tags initially planned starting the 2017 season has been postponed until further notice.

For additional information

Please visit our website at the following address:

http://www.dfo-mpo.gc.ca/fm-gp/sdc-cps/index-eng.htm

Resource management
Québec office
Fisheries and Oceans Canada

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Avis aux pêcheurs

MAQUEREAU BLEU – ZONE 16 – FLOTTILLE DU QUEBEC
ÉTIQUETTES VALIDES

Québec – Le 13 avril 2017

Pêches et Océans Canada – Région du Québec informe les titulaires de permis de pêche au maquereau du Québec de la zone 16 qui utilisent le filet maillant que la mise en place d'étiquette, initialement prévue à partir de la saison de pêche 2017, est reportée à une date ultérieure.

Pour informations additionnelles

Veuillez consulter notre site internet à l'adresse suivante : http://www.dfo-mpo.gc.ca/fm-gp/sdc-cps/index-fra.htm

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s.21(1)(b)

Castonguay, Martin

De: Marentette, Julie
Envoyé: 25 avril 2017 16:42
À: Castonguay, Martin; Krohn, Martha
Cc: Doniol-Valcroze, Thomas
Objet: RE: Note de service au ministre sur le maquereau

Thanks Martin – I think EFM will be circulating a new draft of the memo shortly.

Best regards,

Julie Marentette, Ph.D.

Science Advisor, Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Julie.Marentette@dfo-mpo.gc.ca /Tel: 613-943-2098

Conseillère scientifique, Sciences des populations halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Julie.Marentette@dfo-mpo.gc.ca /Tél: 613-943-2098

From: Castonguay, Martin
Sent: April-25-17 3:19 PM
To: Krohn, Martha
Cc: Doniol-Valcroze, Thomas; Marentette, Julie
Subject: TR: Note de service au ministre sur le maquereau

Martha,

Voir le commentaire d'Yves de Lafontaine dans la section Sciences.

Je suis d'accord avec son commentaire.

[redacted]

Martin

De : de Lafontaine, Yves
Envoyé : 25 avril 2017 13:25
À : Castonguay, Martin; Gilbert, Michel
Cc : Doniol-Valcroze, Thomas
Objet : RE: Note de service au ministre sur le maquereau

Bonjour à tous,

Je crois que nous devrions être plus direct et plus « sévère » dans le texte de la section des Sciences – c'est le seul endroit où nous avons un certain contrôle du message au ministre. Voir mon commentaire sur le fichier

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s.16(2)
s.21(1)(b)

Yves de Lafontaine

Directeur, Institut Maurice Lamontagne
Directeur, Direction régionale des Sciences
Pêches et Océans Canada / Gouvernement du Canada
Yves.delafontaine@dfo-mpo.gc.ca **Tél. : 418-775-0555 / tél. cell. :** [redacted]

Director, Maurice Lamontagne Institute
Director, Sciences regional directorate
Fisheries and Oceans Canada / Government of Canada
Yves.delafontaine@dfo-mpo.gc.ca **Tel : 418-775-0555 / Cel. :** [redacted]

Ma langue, une question de respect
My language, a matter of respect

De : Castonguay, Martin
Envoyé : 25 avril 2017 07:25
À : Gilbert, Michel <Michel.Gilbert@dfo-mpo.gc.ca>; de Lafontaine, Yves <Yves.deLafontaine@dfo-mpo.gc.ca>
Cc : Doniol-Valcroze, Thomas <Thomas.Doniol-Valcroze@dfo-mpo.gc.ca>
Objet : Note de service au ministre sur le maquereau

Bonjour,

PVI voici l'ébauche de la note de service au ministre sur le TAC maquereau que Thomas et moi avons eu l'occasion de commenter. La Gestion des pêches recommande au ministre une hausse de 2000 t par rapport à l'an passé, soit un TAC commercial de 10 000 t à quoi s'ajoutent 6000 t de maquereau non-déclaré.

[redacted]

Martin

Martin Castonguay, Ph.D.
Chercheur et Chef de section Sciences pélagiques /
Research scientist Head of Pelagic science section
Institut Maurice-Lamontagne
Pêches et Océans Canada / Fisheries and Oceans Canada
850 route de la mer, C.P. 1000,
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s.19(1)

Cawthray, Jenness

From: Castonguay, Martin
Sent: April-25-17 3:40 PM
To: Doniol-Valcroze, Thomas; Cawthray, Jenness
Cc: Marentette, Julie; Krohn, Martha; Lester, Brian
Subject: RE: Genetic testing for mackerel

Hi Jenness,

I understand your question but I suggest to first wait until we hear from my Spanish colleague [redacted] She told me last week she should be able to let me know about stock origin of 3K mackerel (including age 0 fish) as early as June or July.

I'll let you guys know as soon as I find out.

Martin

De : Doniol-Valcroze, Thomas
Envoyé : 25 avril 2017 15:32
À : Cawthray, Jenness
Cc : Marentette, Julie; Castonguay, Martin; Krohn, Martha; Lester, Brian
Objet : RE: Genetic testing for mackerel

I'm not sure. Genetics is about comparing samples to other samples or to known baselines. That's why we are collaborating with labs involved in larger studies. Unlike what Ryan said, it's not as simple as sending hair to ancestry.com. Maybe Martin would know the delays better, but in general we have little control over the time scale of things done by other people.

Thomas

De : Cawthray, Jenness
Envoyé : 25 avril 2017 13:35
À : Doniol-Valcroze, Thomas
Cc : Marentette, Julie; Castonguay, Martin; Krohn, Martha; Lester, Brian
Objet : Genetic testing for mackerel

Hi Thomas,
Can you tell me how long it would take to do genetic testing in area 3k next fall should mackerel show up there again if we applied urgency to receiving the results.
Thanks,

Jenness Cawthray
Senior Fisheries and Aquaculture Management Officer |
Agent principal, Gestion des pêches et de l'aquaculture
Fisheries and Oceans | Pêches et océans
200 rue Kent Street - 13S013 Ottawa, ON, K1A 0E6
Jenness.Cawthray@dfo-mpo.gc.ca
Telephone | Téléphone (613) 998-1524

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Bruxer, Shelby

From: Cawthray, Jenness
Sent: April-25-17 11:19 AM
To: Jenkins, Randy
Cc: Lester, Brian; Gibson, Andrea
Subject: MECTS-#3624719-v13-QP_Atlantic_mackerel_TAC_2016.docx
Attachments: MECTS-#3624719-v13-QP_Atlantic_mackerel_TAC_2016.docx

Importance: High

Please see attached updated Mackerel QP.
Thanks,
Jenness

April 25, 2017

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ATLANTIC MACKEREL FISHERY

General Lines:

- Our government is committed to evidence-based decision-making. In fisheries management, this means conducting regular stock assessments.

- The Department undertook a new stock assessment for Atlantic mackerel this spring.

- While the science assessment shows some preliminary signs of rebuilding, the stock is still considered to be in the critical zone under the precautionary approach framework.

- This updated assessment has been discussed with members of the Atlantic Mackerel Advisory Committee and input from stakeholders will assist in future decisions for this fishery.

If pressed:

- We are aware of the concerns of inshore harvesters around access to mackerel, especially for use as bait in other fisheries.

- We will work with those involved in the mackerel fishery to develop options for improving real-time catch information on the progress of the fishery before the next fishing season in 2017.

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If pressed on judicial review:

- The Department will not comment on this matter, as it currently before the Court.

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Message général:

- Le gouvernement s'est engagé à prendre des décisions fondées sur des données probantes. Pour la gestion des pêches, cela signifie procéder régulièrement à des évaluations des stocks.

- Nous avons entrepris ce printemps une nouvelle évaluation du stock de maquereau.

- Même si l'évaluation scientifique montre de premiers signes de rétablissement, le stock est toujours considéré comme se trouvant dans la zone critique selon le cadre de l'approche de précaution.

- Cette évaluation actualisée a été étudiée avec les membres du Comité consultatif sur le maquereau et les commentaires des intervenants seront pris en compte dans les futures décisions concernant cette pêche.

Si on insiste:

- Nous connaissons le point de vue des pêcheurs côtiers au sujet de leur accès au maquereau, en particulier ceux qui l'utilise comme appât pour d'autres pêches.

- Nous travaillerons avec les intervenants de la pêche au maquereau bleu afin de préparer des options permettant d'améliorer l'information de prises en temps réel sur l'avancement de la pêche avant la prochaine saison en 2017.

En cas de questions sur le contrôle judiciaire

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- Le Ministère ne peut commenter cette affaire puisqu'elle se trouve actuellement devant les tribunaux.

Pages 2386 to / à 2388

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pages 3348 to / à 3350

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s.21(1)(b)

Waters, Christa

From: Waters, Christa
Sent: April-25-17 11:53 AM
To: Cawthray, Jenness
Subject: RE: Information on key NL fisheries

OK, phewww...
Seems fine to me.

On the Science piece – we should not be treating science results differently. [redacted]

Christa

From: Cawthray, Jenness
Sent: April 25, 2017 11:47 AM
To: Waters, Christa; Dunne, Erin; Mallet, Pierre; Thomas, Tashina; Gaudet, Mario; Rivierre, Antoine
Cc: Docherty, Verna
Subject: RE: Information on key NL fisheries

No we open without a TAC. Discussion we had yesterday when you indicated that the fishery had opening without a TAC announcement in the past.

We are thinking that we could hold off until June or even into August as it is highly unlikely that TAC would be taken prior to the NL fishery opening.

From: Waters, Christa
Sent: April-25-17 10:43 AM
To: Cawthray, Jenness; Dunne, Erin; Mallet, Pierre; Thomas, Tashina; Gaudet, Mario; Rivierre, Antoine
Cc: Docherty, Verna
Subject: RE: Information on key NL fisheries
Importance: High

Are you suggesting that we DFO not open the Maritimes Region fishery?
Christa

From: Cawthray, Jenness
Sent: April 25, 2017 11:40 AM
To: Dunne, Erin; Waters, Christa; Mallet, Pierre; Thomas, Tashina; Gaudet, Mario; Rivierre, Antoine
Subject: FW: Information on key NL fisheries
Importance: High

Hi All,
In the information I provided yesterday, I indicated there were no concerns if the fishery opens in May without a TAC. I would just like to re-check with the Regions as we have had further discussions at NHQ on postponing decision. I'm not sure yet if this the direction, it is only an option at this point. This would permit additional time to work on monitoring/reporting and also review of the genetic testing.
Thanks!
Jenness

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From: Cawthray, Jenness
Sent: April-24-17 2:54 PM
To: Browne, Ryan
Cc: Lester, Brian; Buie, Jennifer
Subject: FW: Information on key NL fisheries
Importance: High

Mackerel:

1) timing on decision (what's outstanding and real drop dead dates on announcement/fishery opening)

- Varies by Region, Maritimes is the first to open. The Department would like TAC by May 15, with fishery open as soon as decision is made. In 2016, the first recorded catchers were second week of May in the Maritimes. This year, there have already been numerous requests to open the fishery in the Maritimes Regions.
- In Newfoundland, the fishery opens on various dates for fixed and mobile between August 1 and September 2; however, mackerel typically shows up late September –October. Quebec opens June 1 and Gulf May 15.
- The fishery has opened in the past without a TAC announcement. If the Maritimes opens the fishery. We don't see any negative implications to this.

2) inshore perspective / expectation – Expectations are that fishery should open very soon.

- There will likely be a negative reaction with a TAC announcement of 16,000t, particularly in NL where a 36,000t TAC was recommended by harvesters. Commercial harvesters and the provinces put forth recommendations to increase the TAC to 20,000t or 36,000t including undeclared catch estimated at 6,000t per year under current monitoring.

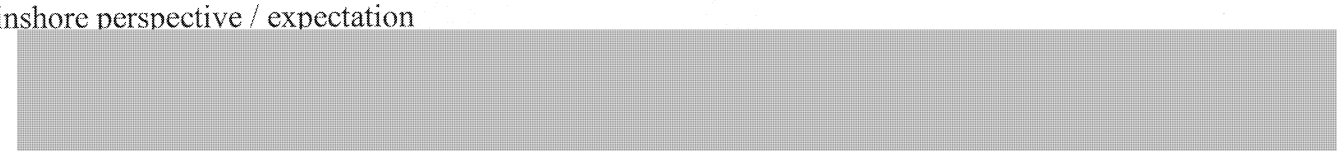
3) other considerations

- There are ongoing protests and it is a challenging time to communicate effectively. There is a significant amount of media coverage on the fishery.

Seals:

1) timing on decision (what's outstanding and real drop dead dates on announcement/fishery opening
   - The harvest of grey seals has ended for the season. There are currently no further plans to harvest grey seals in the near term; however, the harvest may continue later in the fall.
   - The harp seals fishery has started and approximately 52,000 seals were harvested as of April 20th. It is expected that landing amounts per day will slow as harvesters move to other species (crab etc).

2) inshore perspective / expectation



3) other considerations

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- From a communications perspective, media related inquires have dropped off significantly. If there are inquiries regarding the TAC announcement, Communications have lines prepared to address the sustainability of the resource and no ministerial decision.

From: Lester, Brian
Sent: April-24-17 1:03 PM
To: Cawthray, Jenness; Courchesne, Sandra; Kerwin, Jessica
Cc: Burns, Adam; Jenkins, Randy; Buie, Jennifer
Subject: Information on key NL fisheries

Hello ladies: Adam is looking for some information by end of day on 6 key species. What he is looking for (I believe) is to address 3 main issues (see headings below) . Use these three headings and fill in a couple of points for each in terms of NL. Key species/fisheries: 2+3 herring (Jess), Coastal and Gulf Halibut (Sandra), Northern cod (Sandra), mackerel and seals (Jenness). Jess I am not sure what you will be able to find out on that one given it is regionally managed and Advisory has already taken place but look at memo you found other day.

1) timing on decision (what's outstanding and real drop dead dates on announcement/fishery opening
2) inshore perspective / expectation
3) other considerations

Sent from my BlackBerry 10 smartphone on the Rogers network.

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s.21(1)(b)

s.23

Cawthray, Jenness

From: Dunne, Erin
Sent: April-25-17 7:24 AM
To: Cawthray, Jenness
Subject:
Attachments:

Jenness

From: Castonguay, Martin
Sent: April-25-17 8:50 AM
To: Krohn, Martha; Marentette, Julie; Waters, Christa; Cawthray, Jenness; Rivierre, Antoine; Mallet, Pierre; Gaudet, Mario; Thomas, Tashina; Doniol-Valcroze, Thomas; Dunne, Erin; Lavoie, Pierre
Cc: Lester, Brian; Berthier, Jacinta; Wentzell, Doug
Subject: RE:

Hi,

Martin

De : Krohn, Martha
Envoyé : 24 avril 2017 16:29
À : Marentette, Julie; Waters, Christa; Cawthray, Jenness; Rivierre, Antoine; Mallet, Pierre; Gaudet, Mario; Thomas, Tashina; Doniol-Valcroze, Thomas; Dunne, Erin; Lavoie, Pierre; Castonguay, Martin
Cc : Lester, Brian; Berthier, Jacinta; Wentzell, Doug
Objet : RE:

Hi Jenness,

Martha

From: Marentette, Julie
Sent: April-24-17 3:54 PM
To: Waters, Christa; Cawthray, Jenness; Rivierre, Antoine; Mallet, Pierre; Gaudet, Mario; Thomas, Tashina; Doniol-Valcroze, Thomas; Krohn, Martha; Dunne, Erin; Lavoie, Pierre; Castonguay, Martin
Cc: Lester, Brian; Berthier, Jacinta; Wentzell, Doug
Subject: RE:

Hi Jenness,

Best regards,

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s.21(1)(b)

s.23

Julie Marentette, Ph.D.

Science Advisor, Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Julie.Marentette@dfo-mpo.gc.ca /Tel: 613-943-2098

Conseillère scientifique, Sciences des populations halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Julie.Marentette@dfo-mpo.gc.ca /Tél: 613-943-2098

From: Waters, Christa
Sent: April-24-17 2:47 PM
To: Cawthray, Jenness; Rivierre, Antoine; Mallet, Pierre; Gaudet, Mario; Thomas, Tashina; Marentette, Julie; Doniol-Valcroze, Thomas; Krohn, Martha; Dunne, Erin; Lavoie, Pierre; Castonguay, Martin
Cc: Lester, Brian; Berthier, Jacinta; Wentzell, Doug
Subject: RE:

Hello,

Christa

From: Cawthray, Jenness
Sent: April 24, 2017 9:59 AM
To: Rivierre, Antoine; Mallet, Pierre; Gaudet, Mario; Thomas, Tashina; Waters, Christa; Marentette, Julie; Doniol-Valcroze, Thomas; Krohn, Martha; Dunne, Erin; Lavoie, Pierre; Castonguay, Martin
Cc: Lester, Brian
Subject:
Importance: High

Hello All,

Much appreciated!
Thanks!

Jenness Cawthray
Senior Fisheries and Aquaculture Management Officer |
Agent principal, Gestion des pêches et de l'aquaculture
Fisheries and Oceans | Pêches et océans
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Jenness.Cawthray@dfo-mpo.gc.ca
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Krohn, Martha

From: Landry, Jean
Sent: April-26-17 2:11 PM
To: Krohn, Martha; Marentette, Julie
Subject: RE: Issue with Mackerel Memo - Science Advice section

Categories: Red Category

Here are my two cents. I only looked at the science section below (see my points in red below). Personally, I am not sure we should give up totally on the sentences that were removed. As part of our advice, we have provided a number of scenarios. We could mention this one as an example of scenario that would give a relatively high probability of growth for this stock that is currently in the critical zone. I will try to give a look at the whole memo before leaving today, if possible.

Jean Landry

Director , Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Jean.Landry@dfo-mpo.gc.ca / Tel: 613-993-0029

Directeur, Sciences halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Jean.Landry@dfo-mpo.gc.ca / Tél. : 613-993-0029

Government of Canada Gouvernement du Canada

Canada

De : Krohn, Martha
Envoyé : 26 avril 2017 13:39
À : Marentette, Julie <Julie.Marentette@dfo-mpo.gc.ca>; Landry, Jean <Jean.Landry@dfo-mpo.gc.ca>
Objet : RE: Issue with Mackerel Memo - Science Advice section

Sounds good to me Julie. I do not see a problem at all with it in the Science section but to be diplomatic we could move it, as you suggest. (We are not recommending a TAC, just responding with the science advice associated to the TAC identified in the memo by EFM.)
Thanks and you could go ahead and communicate with EFM because Jean may not be available to look at this this week.
Thanks,
Martha

From: Marentette, Julie
Sent: April-26-17 1:25 PM
To: Landry, Jean; Krohn, Martha
Subject: Issue with Mackerel Memo - Science Advice section

Hi Martha and Jean,

Document Released Under the Access to Information Act / Document divulgué en vertu de la Loi sur l'accès à l'information.

Sending this to both of you for brevity. The mackerel memo is still with EFM awaiting direction (as per Jenness' comment below) so this is not an approved version.

We received some comments from Yves via Martin (attached) on the very preliminary draft of the mackerel memo, requesting that part of the Science Advice section be removed, namely this part:

SCIENCE ADVICE

A stock assessment for Atlantic Mackerel was conducted March 8-9, 2017. The current spawning stock biomass was estimated at 40,000 t for 2017, lower than the Limit Reference Point of 103,000t, placing mackerel in the critical zone of the PA framework. The model estimated that unreported/undeclared catches (recreational, bait, discard mortality and a portion of the American landings) averaged approximately 6,000t in recent years, in addition to commercial landings. This means that with a commercial TAC of 8,000t, total landings, including the undeclared estimate, were estimated to be 14,000t in 2016. According to the assessment, mackerel spawning stock biomass has increased slightly since reaching a historical low of 20,000 t in 2012. Science has recommended that, because the stock is still in the critical zone, total catches (declared and unreported) should be lowest as possible to facilitate stock recovery. Science has also noted that improved data collection on unreported catches is a priority.

~~Modelled stock projections over a two-year assessment period (2017-2019) indicate that total landings of 16,000t (10,000t TAC and up to 6,000t undeclared catches) would result in a 77% probability that the mackerel spawning stock biomass would continue to increase in abundance over current levels. This corresponds to a high probability of growth, as defined in DFO's PA framework (high = 75-95%).~~

While I agree that the PA interpretation is not part of the Science Advice, because this information may still be of value, I would like to suggest to EFM that these two sentences could be incorporated elsewhere in the memo. Especially the first one as it is derived directly from the projection table.

Is this approach OK with you?

Best regards,

Julie Marentette, Ph.D.

Science Advisor, Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Julie.Marentette@dfo-mpo.gc.ca /Tel: 613-943-2098

Conseillère scientifique, Sciences des populations halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Julie.Marentette@dfo-mpo.gc.ca /Tél: 613-943-2098

From: Cawthray, Jenness
Sent: April-26-17 1:05 PM
To: Marentette, Julie
Subject: MECTS-#3766140-v4-2017_ATLANTIC_MACKEREL_MANAGEMENT_MEASURES.docx

Hi Julie,
Here is the current working copy. Some but not all of the changes have been made. Also please note that are still waiting for some formal direction on how to proceed with this.
Thanks,
Jenness

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Marentette, Julie

From: Marentette, Julie
Sent: April-26-17 2:23 PM
To: Cawthray, Jenness
Subject: RE: MECTS-#3766140-v4-2017_ATLANTIC_MACKEREL_MANAGEMENT_MEASURES.docx

Hi Jenness,

Sure, it is Annex 2 of the document here: http://www.dfo-mpo.gc.ca/reports-rapports/regs/sff-cpd/precaution-eng.htm

Because the mackerel projection tables are phrased as probability of growth and not risk of decline, the definitions here are inverted but the values would still be the same.

B) A draft table defining risk tolerance designations (for use in the decision-making framework)

Risk of decline[1]	Risk category
Less than 5%	Very low
5% - 25%	Low
25% - 50%	Moderate
~50%	Neutral
50%-75%	Moderately High
75%-95%	High
>95%	Very High

[1] Accounts for quantifiable risk only.

Best regards,

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Julie Marentette, Ph.D.

Science Advisor, Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Julie.Marentette@dfo-mpo.gc.ca /Tel: 613-943-2098

Conseillère scientifique, Sciences des populations halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Julie.Marentette@dfo-mpo.gc.ca /Tél: 613-943-2098

From: Cawthray, Jenness
Sent: April-26-17 1:58 PM
To: Marentette, Julie
Subject: RE: MECTS-#3766140-v4-2017_ATLANTIC_MACKEREL_MANAGEMENT_MEASURES.docx

Thanks! Can you also provide me with the document of where the PA recommends 75-95% growth?

From: Marentette, Julie
Sent: April-26-17 1:49 PM
To: Cawthray, Jenness
Subject: RE: MECTS-#3766140-v4-2017_ATLANTIC_MACKEREL_MANAGEMENT_MEASURES.docx

Thanks for sharing! Here's the draft with that extra edit in.

Let me know if I can help with anything else. I know it is super busy!

Best regards,

Julie Marentette, Ph.D.

Science Advisor, Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Julie.Marentette@dfo-mpo.gc.ca /Tel: 613-943-2098

Conseillère scientifique, Sciences des populations halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Julie.Marentette@dfo-mpo.gc.ca /Tél: 613-943-2098

From: Cawthray, Jenness
Sent: April-26-17 1:05 PM
To: Marentette, Julie
Subject: MECTS-#3766140-v4-2017_ATLANTIC_MACKEREL_MANAGEMENT_MEASURES.docx

Hi Julie,
Here is the current working copy. Some but not all of the changes have been made. Also please note that are still waiting for some formal direction on how to proceed with this.
Thanks,
Jenness

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Cawthray, Jenness

From: Lester, Brian
Sent: April-26-17 2:33 PM
To: Beamish, Kayla
Cc: Cawthray, Jenness
Subject: RE: Reminder: Draft Lines - Mackerel TAC
Attachments: ML_Mackerel_TAC.docx

sorry on webmail so guess I didn't attach properly _____
From: Beamish, Kayla
Sent: Wednesday, April 26, 2017 2:28 PM
To: Lester, Brian
Cc: Cawthray, Jenness
Subject: RE: Reminder: Draft Lines - Mackerel TAC

Okay sounds good Brian - did you mean to attach the lines?

-----Original Message-----
From: Lester, Brian
Sent: April 26, 2017 2:25 PM
To: Beamish, Kayla
Cc: Cawthray, Jenness
Subject: RE: Reminder: Draft Lines - Mackerel TAC

Hello Kayla: I include updated lines but this is still in flux and it sounds like we might delay an actual announcement on TAC for several weeks...despite the fishery starting in the coming weeks. We might need some holding lines in the meantime e.g. that we are evaluating the enhanced reporting in the fishery this year and what impacts that will the level of undeclared fish and we will consider this in the establishment of the total allowable catch for the commercial fishery.

I will be back in the office on Friday if you want to discuss but Jenness is around all week if you need something sooner.

_____
From: Beamish, Kayla
Sent: Wednesday, April 26, 2017 11:08 AM
To: Lester, Brian
Subject: Reminder: Draft Lines - Mackerel TAC

Hi Brian – think this one fell off the radar a bit. Just remembered these when I saw the word "mackerel" somewhere.

When you have a sec please send me those edits you had to the lines!

Thanks,
Kayla

From: Beamish, Kayla
Sent: April 18, 2017 11:36 AM
To: Lester, Brian
Subject: Draft Lines - Mackerel TAC

Document Released Under the Access to Information Act / Document divulgué en vertu de la Loi sur l'accès à l'information.

Hi Brian,

I made some quick adjustments to the mackerel lines just based on your update this morning (though I admit I only caught a bit of it and wasn't super clear on the "unknown catch" of 6,000t...maybe that needs to be something we highlight in these lines? Wasn't sure).

You had also mentioned something about our decision being in line with science, giving high probability of growth? Maybe that's something we should emphasize a bit more?

Do we need to have an if pressed on the inclusion of 3k in Canadian quota? (something else you mentioned this a.m.)

Anyway, have a look and then maybe we can chat after lunch. Did you say you have a memo drafted for this one?

Thanks!
Kayla

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DRAFT

MEDIA LINES

Atlantic Mackerel Total Allowable Catch 2017

Issue

On May 1 (TBC), Fisheries and Oceans Canada (DFO) will announce the 2017 Total Allowable Catch (TAC) decision for the Atlantic Mackerel fishery. The TAC for the commercial catch in 2017 will be set , which is an increase from the 2016 TAC of 8,000 tonnes~~.....more details on the decision TBC~~. Given increased reporting requirements it is anticipated that undeclared/unreported will be significantly reduced this year. The department can expect media calls on the decision, as industry's expectations ~~for the~~were for a significant TAC increase ~~amount differ slightly from~~ however their request was not supported by the science advice (which the Department has followed). We would expect that there will also be negative reaction from the Ecology Action Center and some Indigenous groups that suggested a reduced harvest levels given the stock is assessed to be in the critical zone.

The Atlantic Mackerel Advisory Committee meeting took place on March 30 in Halifax, Nova Scotia. DFO chaired the meeting and upwards of 70 stakeholders, including Indigenous groups, harvesters, processors, environmental non-government organizations, and the four Atlantic Provinces and Quebec.

Media lines

- The 2017 Total Allowable Catch for the commercial fishery is set under a one-year management plan (TBC). This increase recognizes both the projected increases in the biomass over the coming year and the commitment to address unreported landings in the fishery.

- Fisheries management decisions for all stocks, including Atlantic mackerel include consideration of the best available science as well as input from Indigenous groups, harvesters, processors, environmental non-government organizations and the provinces.

-

- The Department undertook a new stock assessment for Atlantic mackerel this spring. This updated assessment was discussed with members of the Atlantic Mackerel Advisory Committee on March 30 and input from stakeholders played an important role in the department's TAC decision.

- While the science assessment has shown some preliminary signs of rebuilding, the stock assessment indicates that the stock remains in the critical zone under DFO's Precautionary Approach framework.

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- The established harvest level meets the Department's commitment to the Precautionary Approach in that there is a greater than 75% probability that the stock biomass will continue to increase at the established harvest level.

- Fisheries and Oceans Canada is committed to balancing economic opportunity and financial stability of the Atlantic mackerel fishery while promoting the sustainability of this resource.

- The Department has established a one-year TAC in line with the industry request to revisit the harvests level at the end of the 2017 fishery.

-
-

If pressed:

- Management decisions for this fishery consider long-term conservation and sustainability of the stock and take into account the best available science, the Department's management plan, and views expressed by stakeholders during consultations with industry.

- While industry supported and agreed with the general trends of stock rebuilding indicated in the stock assessment, their views are that the overall biomass is significantly larger than the science would indicate based on what they experienced in the 2016 fishery.

- The Department has also initiated a DFO/ industry rebuilding plan working group for this stock that will meet over the coming year to develop a plan for consideration by the Atlantic Mackerel Advisory Committee.

If pressed on judicial review:

- The Department will not comment on this matter, as it currently before the Court.

Program Contact: Brian Lester, Adam Burns

Communications Contact: Kayla Beamish

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Bruxer, Shelby

From: Cawthray, Jenness
Sent: April-26-17 7:40 AM
To: Burns, Adam; Lester, Brian
Cc: Jenkins, Randy
Subject: RE:
Attachments: mackerel_science_AMAC.pdf

Hi Adam,
As requested.
Jenness

From: Burns, Adam
Sent: April-25-17 4:03 PM
To: Lester, Brian; Cawthray, Jenness
Cc: Jenkins, Randy
Subject:

Can you send me the Mackerel science electronically as Sylvie would like a copy

Adam Burns

a/Director General, Ecosystems and Fisheries Management
Fisheries and Oceans Canada / Government of Canada
adam.burns@dfo-mpo.gc.ca / Tel: 613-993-6853

Directeur general par int., Gestion des écosystèmes et des pêches
Pêches et Océans Canada / Gouvernment du Canada
adam.burns@dfo-mpo.gc.ca / Tél.: 613-993-6853

Pages 2403 to / à 2431

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pages 2985 to / à 3013

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s.16(2) s.19(1) s.21(1)(b)

Marentette, Julie

From: Krohn, Martha
Sent: April-27-17 8:10 AM
To: de Lafontaine, Yves
Cc: Landry, Jean; Marentette, Julie
Subject: RE: Note de service au ministre sur le maquereau

Thank you very Yves. Your comments have been shared with EFM and Julie has suggested putting the bullet about probability of growth at 16 000t in the body of the memo only, along with the TAC recommendation, [redacted]

Thank you for your review,
Martha

From: de Lafontaine, Yves
Sent: April-27-17 7:32 AM
To: Krohn, Martha
Subject: TR: Note de service au ministre sur le maquereau

I did sent this to Jean [redacted] So I share with you.

Yves de Lafontaine

Directeur, Institut Maurice Lamontagne
Directeur, Direction régionale des Sciences
Pêches et Océans Canada / Gouvernement du Canada
Yves.delafontaine@dfo-mpo.gc.ca Tél. : 418-775-0555 / tél. cell. : [redacted]

Director, Maurice Lamontagne Institute
Director, Sciences regional directorate
Fisheries and Oceans Canada / Government of Canada
Yves.delafontaine@dfo-mpo.gc.ca Tel : 418-775-0555 / Cel. : [redacted]

Ma langue, une question de respect / My language, a matter of respect

De : de Lafontaine, Yves
Envoyé : 25 avril 2017 17:35
À : Landry, Jean (Jean.Landry@dfo-mpo.gc.ca) <Jean.Landry@dfo-mpo.gc.ca>
Objet : TR: Note de service au ministre sur le maquereau

Jean,

J'ai pris connaissance de la note au ministre pour le maquereau et ai suggéré certaines modifications au texte de la section des Sciences, [redacted] Voir mon commentaire dans le fichier attaché et que j'avais retourné à Martin et Thomas.

Yves de Lafontaine

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s.16(2)
s.21(1)(b)

Directeur, Institut Maurice Lamontagne
Directeur, Direction régionale des Sciences
Pêches et Océans Canada / Gouvernement du Canada
Yves.delafontaine@dfo-mpo.gc.ca Tél. : 418-775-0555 / tél. cell. :

Director, Maurice Lamontagne Institute
Director, Sciences regional directorate
Fisheries and Oceans Canada / Government of Canada
Yves.delafontaine@dfo-mpo.gc.ca Tel : 418-775-0555 / Cel. :

Ma langue, une question de respect
My language, a matter of respect

De : Doniol-Valcroze, Thomas
Envoyé : 25 avril 2017 15:23
À : de Lafontaine, Yves <Yves.deLafontaine@dfo-mpo.gc.ca>; Castonguay, Martin <Martin.Castonguay@dfo-mpo.gc.ca>; Gilbert, Michel <Michel.Gilbert@dfo-mpo.gc.ca>
Objet : RE: Note de service au ministre sur le maquereau

Il est à noter que le paragraphe que Yves propose de supprimer n'a pas été écrit par la Science (en tous cas pas par nous). C'est quelque chose que Jenness a écrit à partir de la table des projections que nous avons fournie. Donc les chiffres viennent de l'Avis Scientifique,

Thomas

De : de Lafontaine, Yves
Envoyé : 25 avril 2017 13:25
À : Castonguay, Martin; Gilbert, Michel
Cc : Doniol-Valcroze, Thomas
Objet : RE: Note de service au ministre sur le maquereau

Bonjour à tous,

Je crois que nous devrions être plus direct et plus « sévère » dans le texte de la section des Sciences – c'est le seul endroit où nous avons un certain contrôle du message au ministre. Voir mon commentaire sur le fichier

Yves de Lafontaine

Directeur, Institut Maurice Lamontagne
Directeur, Direction régionale des Sciences
Pêches et Océans Canada / Gouvernement du Canada
Yves.delafontaine@dfo-mpo.gc.ca Tél. : 418-775-0555 / tél. cell. :

Director, Maurice Lamontagne Institute
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s.21(1)(b)

Ma langue, une question de respect / My language, a matter of respect

De : Castonguay, Martin
Envoyé : 25 avril 2017 07:25
À : Gilbert, Michel <Michel.Gilbert@dfo-mpo.gc.ca>; de Lafontaine, Yves <Yves.deLafontaine@dfo-mpo.gc.ca>
Cc : Doniol-Valcroze, Thomas <Thomas.Doniol-Valcroze@dfo-mpo.gc.ca>
Objet : Note de service au ministre sur le maquereau

Bonjour,

PVI voici l'ébauche de la note de service au ministre sur le TAC maquereau que Thomas et moi avons eu l'occasion de commenter. La Gestion des pêches recommande au ministre une hausse de 2000 t par rapport à l'an passé, soit un TAC commercial de 10 000 t à quoi s'ajoutent 6000 t de maquereau non-déclaré.

Martin

Martin Castonguay, Ph.D.
Chercheur et Chef de section Sciences pélagiques /
Research scientist Head of Pelagic science section
Institut Maurice-Lamontagne
Pêches et Océans Canada / Fisheries and Oceans Canada
850 route de la mer, C.P. 1000,
Mont-Joli, Québec,
Canada G5H 3Z4

Tel 1 418 775 0634
Fax 1 418 775 0740
martin.castonguay@dfo-mpo.gc.ca

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Beamish, Kayla

From: Cawthray, Jenness
Sent: April 27, 2017 9:05 AM
To: Beamish, Kayla; Lester, Brian
Subject: RE: Reminder: Draft Lines - Mackerel TAC

Hi Brian,
I spoke to Kayla this morning. She will hold the lines for now. Let's discuss the approach tomorrow.
Thanks!
Jenness

From: Beamish, Kayla
Sent: April-26-17 4:58 PM
To: Lester, Brian
Cc: Cawthray, Jenness
Subject: RE: Reminder: Draft Lines - Mackerel TAC

Will still move these lines through approvals now.

Ok with you if I put Adam as the spokes for this? I have him down as TBC - he can confirm when he approves?

Also, you mention that the fishery would be starting in the coming weeks - do we have a date for this? Would be good to include in the document as I'm sure people will ask as they approve.

We had some draft holding lines crafted just following the mackerel meeting that we could have on hand in the event we get media Qs before the TAC is announced/after the fishery opens? I've pasted them below. Would these suffice?

Media lines

•Our government ensures that fisheries management decisions for all stocks, including Atlantic mackerel include consideration of the best available science as well as input from Indigenous groups, harvesters, processors, environmental non-government organizations and the provinces.

•The Department undertook a new stock assessment for Atlantic mackerel this spring. This updated assessment was discussed with members of the Atlantic Mackerel Advisory Committee on March 30 and input from stakeholders will assist in future decisions for this fishery.

•While the science assessment has shown some preliminary signs of rebuilding, the stock assessment indicates that the stock remains in the critical zone under DFO's Precautionary Approach framework.

•Fisheries and Oceans Canada is committed to balancing economic opportunity and financial stability of the Atlantic mackerel fishery while promoting the sustainability of this resource.

If pressed:

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•Management decisions for this fishery will consider long-term conservation and sustainability of the stock and take into account the best available science, the department's management plan, and views expressed by stakeholders at the recent consultation with industry.

•While industry supported and agreed with the general trends of stock rebuilding indicated in the stock assessment, their views are that the overall biomass is significantly larger than the science would indicate based on what they experienced in the 2016 fishery.

If pressed on judicial review:

•The Department will not comment on this matter, as it currently before the Court.

-----Original Message-----
From: Lester, Brian
Sent: April 26, 2017 2:33 PM
To: Beamish, Kayla
Cc: Cawthray, Jenness
Subject: RE: Reminder: Draft Lines - Mackerel TAC

sorry on webmail so guess I didn't attach properly _____
From: Beamish, Kayla
Sent: Wednesday, April 26, 2017 2:28 PM
To: Lester, Brian
Cc: Cawthray, Jenness
Subject: RE: Reminder: Draft Lines - Mackerel TAC

Okay sounds good Brian - did you mean to attach the lines?

-----Original Message-----
From: Lester, Brian
Sent: April 26, 2017 2:25 PM
To: Beamish, Kayla
Cc: Cawthray, Jenness
Subject: RE: Reminder: Draft Lines - Mackerel TAC

Hello Kayla: I include updated lines but this is still in flux and it sounds like we might delay an actual announcement on TAC for several weeks...despite the fishery starting in the coming weeks. We might need some holding lines in the meantime e.g. that we are evaluating the enhanced reporting in the fishery this year and what impacts that will the level of undeclared fish and we will consider this in the establishment of the total allowable catch for the commercial fishery.

I will be back in the office on Friday if you want to discuss but Jenness is around all week if you need something sooner.

_____
From: Beamish, Kayla
Sent: Wednesday, April 26, 2017 11:08 AM
To: Lester, Brian
Subject: Reminder: Draft Lines - Mackerel TAC

Hi Brian – think this one fell off the radar a bit. Just remembered these when I saw the word "mackerel" somewhere.

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When you have a sec please send me those edits you had to the lines!

Thanks,
Kayla

From: Beamish, Kayla
Sent: April 18, 2017 11:36 AM
To: Lester, Brian
Subject: Draft Lines - Mackerel TAC

Hi Brian,

I made some quick adjustments to the mackerel lines just based on your update this morning (though I admit I only caught a bit of it and wasn't super clear on the "unknown catch" of 6,000t...maybe that needs to be something we highlight in these lines? Wasn't sure).

You had also mentioned something about our decision being in line with science, giving high probability of growth? Maybe that's something we should emphasize a bit more?

Do we need to have an if pressed on the inclusion of 3k in Canadian quota? (something else you mentioned this a.m.)

Anyway, have a look and then maybe we can chat after lunch. Did you say you have a memo drafted for this one?

Thanks!
Kayla

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s.21(1)(b)

Patterson, Pauline

De: Rivierre, Antoine
Envoyé: April-27-17 3:17 PM
À: Richard, Josée
Cc: Hardy, Magalie; Morin, Mathieu; Boulay, Stéphane; Bourgeois, Raoul; Dickner, Daniel
Objet: RE: Monitoring measures for mackerel

Juste une précision par rapport à mon message de ce matin.
Les mesures qui vont être mises en place dans la région du golfe (Hail-in et DMS) seront uniquement en œuvre pour les pêcheurs de la région du golfe (ou qui débarquent au golfe).

N'hésitez pas à me contacter si vous avez des questions.

Antoine

De : Richard, Josée
Envoyé : 27 avril 2017 12:24
À : Rivierre, Antoine
Cc : Hardy, Magalie; Morin, Mathieu; Boulay, Stéphane; Bourgeois, Raoul; Dickner, Daniel
Objet : RE: Monitoring measures for mackerel

Quelques commentaires en rouge à même ton courriel.

J'en profite pour indiquer que nous commençons à avoir des demandes pour les conditions de permis de maquereau (pêche au filet). Les pêcheurs des Îles voudront aller tendre des filets (au large) un peu plus tôt cette année. Peut-on envisager une ouverture vers la mi-mai? Est-ce que le bureau régional sur les conditions de permis?

Merci

De : Rivierre, Antoine
Envoyé : 27 avril 2017 12:58
À : Hardy, Magalie; Richard, Josée; Morin, Mathieu; Boulay, Stéphane; Bourgeois, Raoul; Dickner, Daniel
Objet : TR: Monitoring measures for mackerel
Importance : Haute

Bonjour à tous,
Dans le cadre de la rédaction du Mémo concernant le TAC et les mesures de gestion pour le maquereau, l'administration centrale nous demande d'identifier des mesures de gestion que nous pourrions mettre en place afin **d'améliorer la collecte des données dans notre région**.

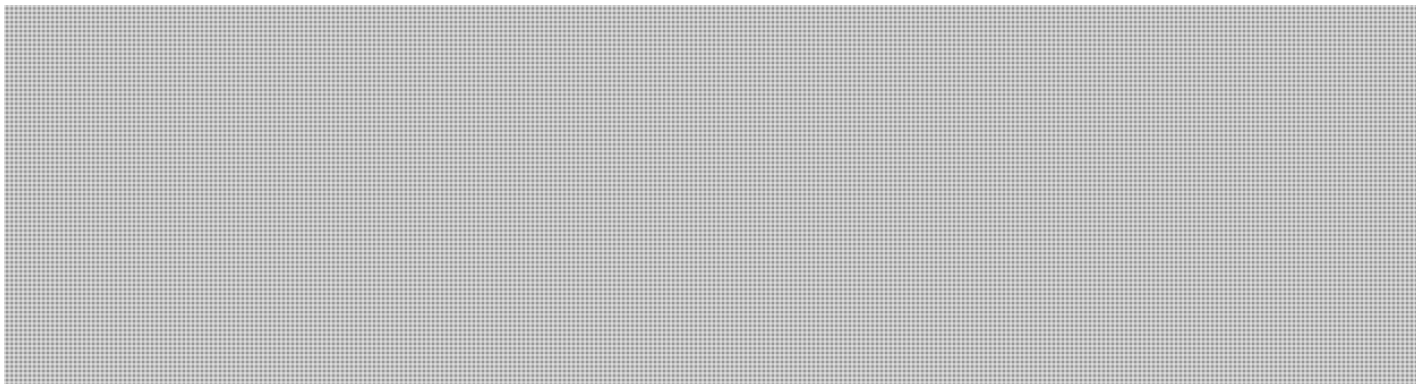
Je suis bien conscient que beaucoup de travail a déjà été fait et en ce sens je vais indiquer que nous souhaitons reporter les mesures actuellement en place soit :

- Pêche commerciale
  - Logbook
  - 100 % de Hail-in (zone 16)
- Pêche pour appât
  - Logbook

s.21(1)(b)
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- Émission de conditions de permis à la demande et non plus « en lot ». Évite d'avoir les conditions d'appât et maquereau commercial valides en même temps.

Concernant les mesures qui pourraient être mise en place à plus long terme, je souhaite vous consulter sur faisabilité et la pertinence proposer la mise en place des mesures suivantes au niveau national :



Je suis également conscient que l'harmonisation avec les autres régions (particulièrement la région du Golfe) est un enjeu critique et que le déploiement de nouvelles mesures de gestion sera difficile si ce n'est pas harmonisé. À titre informatif, la région du golfe propose l'instauration d'un appel d'entrée à 100 % ainsi que 25 % de DMS en 2017. Comme l'industrie n'a pas été consulté et que nous sommes à la dernière minute, je ne suggère pas de PVQ en 2017. Si c'est l'enlignement à donner en 2018, au minimum, l'industrie devrait être consulté.

Les mesures de gestion ne sont pas harmonisées avec les autres régions. Nos pêcheurs nous l'ont signalé à plusieurs reprises (pas de JB, pas de PVQ, pas de hail in, etc. dans les autres régions).

Le mémo étant actuellement en rédaction j'apprécierai d'avoir vos commentaires et vos inputs à ce sujet le plus rapidement possible.
Merci d'avance pour votre aide.

Antoine

Hi Everyone,

As I draft the memo it would be useful if you could provide some paragraphs on your monitoring procedures in each respective region, any changes that are planned, timelines and how your expect this to improve data collection in your region. If there are other procedures that can be implemented more long term then please let me know (ie e-logs). I appreciate that we have had already had some high level discussion on this during our conference calls; however, it would be useful if these procedure are drafted with more detail.
I will use this either as part of the memo depending on how much information we have on this issue or as an attachment to memo.
Thanks!

Jenness Cawthray
Senior Fisheries and Aquaculture Management Officer |
Agent principal, Gestion des pêches et de l'aquaculture
Fisheries and Oceans | Pêches et océans

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200 rue Kent Street - 13S013 Ottawa, ON, K1A 0E6
Jenness.Cawthray@dfo-mpo.gc.ca
Telephone | Téléphone (613) 998-1524
Facsimile | Télécopieur (613) 990-7051
Government of Canada | Gouvernement du Canada

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s.21(1)(b)
s.23

Cawthray, Jenness

From: Lavoie, Pierre
Sent: April-27-17 4:27 PM
To: Cawthray, Jenness
Cc: Cossette, Patrick
Subject: [redacted]
Attachments:

[redacted]

Pierre

From: Cawthray, Jenness
Sent: April-24-17 8:59 AM
To: Rivierre, Antoine; Mallet, Pierre; Gaudet, Mario; Thomas, Tashina; Waters, Christa; Marentette, Julie; Doniol-Valcroze, Thomas; Krohn, Martha; Dunne, Erin; Lavoie, Pierre; Castonguay, Martin
Cc: Lester, Brian
Subject: [redacted]
Importance: High

Hello All,

[redacted]

Much appreciated!
Thanks!

Jenness Cawthray
Senior Fisheries and Aquaculture Management Officer |
Agent principal, Gestion des pêches et de l'aquaculture
Fisheries and Oceans | Pêches et océans
200 rue Kent Street - 13S013 Ottawa, ON, K1A 0E6
Jenness.Cawthray@dfo-mpo.gc.ca
Telephone | Téléphone (613) 998-1524
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Government of Canada | Gouvernement du Canada

Pages 2442 to / à 2449

are withheld pursuant to sections

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of the Access to Information Act

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MEMORANDUM FOR THE REGIONAL DIRECTOR

ATLANTIC MACKEREL
MANAGEMENT MEASURES TO PROMOTE REBUILDING

(Decision Required)

SUMMARY

- Fisheries and Oceans Canada (DFO) has recently completed its peer-reviewed science assessment of the Atlantic Mackerel stock for 2017 (TAB A). Findings indicate that the stock is still in the critical zone at 40% of the Limit Reference Point. Mackerel spawning biomass declined from the mid-2000s, reached its lowest recorded level in 2012, and is relatively stable with a slow upward trend since 2012. Other biological indicators (i.e. length and age at maturity) are relatively stable. A slight improvement in the age structure can be seen since the last assessment; however, a truncated age structure still exists. The assessment concluded that the priority is still for its reconstruction, and that improvements to data collection are required.

- The Atlantic Mackerel Advisory Committee was held on March 30, 2017. Recommendations on a Total Allowable Catch ranged from 2,000 mt to 30,000 mt for commercial catch. Industry members insisted that the stock is healthy and that the science assessment was not reflective of the complete picture.

- It is recommended that you approve the following changes to management measures to promote rebuilding and improve data collection for the bait fishery: add handline as a gear type to bait licences with a limit of two handlines and 36 hooks in the aggregate, with a prohibition on using mechanical devices, to be implemented in 2017; and a daily limit of 2,000 lbs to be implemented in 2018.

- Further, it is recommended that you approve the following changes to management measures to promote rebuilding and an improvement in data collection for the commercial fishery: increase the frequency of logbook submission from monthly to weekly for vessel-based gillnet and handline (2017) and weir (2018); and consult on limits to the number of lines/hooks in the commercial handline fishery (including auto jiggers/mechanical devices) through 2017 with a decision to be in place for 2018.

Background

- The Atlantic Mackerel stock is a trans-boundary stock found in both Canadian and United States' waters. Mackerel is fished in Canadian waters on a fully competitive basis. There is no regional sharing arrangement in place.

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- Total reported commercial landings in Atlantic Canada have decreased significantly in recent years, from a high of 54,621 mt in 2005 to a record low 4,145 mt in 2015. During the same time frame, Total Allowable Catch (TAC) levels followed the landings and resulted in a reduction to 8,000 mt per year over the past two years. The TAC had not been restrictive until 2016.

- DFO has recently completed its peer-reviewed science assessment of the Atlantic Mackerel stock for 2017 (TAB A). Findings indicate that the stock is in the critical zone at 40% of the Limit Reference Point (LRP). Mackerel spawning biomass declined from the mid-2000s, reached its lowest recorded level in 2012, and is relatively stable with a slow upward trend since 2012. Other biological indicators (i.e. length and age at maturity) are relatively stable. A slight improvement in the age structure can be seen since the last assessment; however, a truncated age structure still exists where the catch focused on 2 and 3 year olds with few 6+ in the catch. The only known Canadian spawning ground is depleted. Given the continued critical situation of the stock, the assessment concluded that the priority is still for its reconstruction and for improvements to data collection (e.g., landings).

- The Maritimes Regional Mackerel Advisory Committee (MARMAC) is a recently revived advisory committee for mackerel stakeholders located in the Maritimes Region. The second annual meeting of this committee took place on March 23, 2017. At this meeting, discussions took place on potential management measure that could be considered in the Maritimes to contribute to the rebuilding of this stock. Recommendations on a TAC are discussed at the Atlantic Mackerel Advisory Committee (AMAC).

- The AMAC was held on March 30, 2017. The advice received from the AMAC was that industry wanted a one year management plan. Recommendations on a TAC ranged from 2,000 mt commercial catch to a high of 30,000 mt. Industry members insisted that the stock is healthy and that the science assessment was not reflective of the complete picture.

Aboriginal Consultation / Considerations

- Several Maritimes Region Aboriginal groups participated at the MARMAC and at a supplementary meeting of the AMAC.

- The view around the room was that DFO should protect the Aboriginal right to fish for Mackerel for Food Social and Ceremonial (FSC) and commercial purposes (including Mackerel for bait for the FSC Lobster fishery). In addition, it was communicated that the cultural importance of Mackerel to Aboriginal communities is significant.

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- Although few specific management measures were suggested, the group advised that a cautious approach to increase the chances of rebuilding the stock was being sought, including a closure of the commercial fishery. It was felt that harvesting at the current level on a stock deep in the critical zone was neither appropriate nor responsible, and threatened Aboriginal rights. More formal consultation has been requested for bigger decisions (i.e., through the Made in Nova Scotia process, KMK).

Analysis / DFO Comment

- A briefing note is being prepared for the Minister by National Headquarters on a TAC recommendation for this year and for other Atlantic-wide management measures for consideration (e.g. temporary licence freeze).

- The Mackerel fishery in the Maritimes Region can begin at any moment. Our ability to implement large changes this year is limited by the lack of opportunity to consult; however, over the last two years at the MARMAC, DFO has asked for suggestions on potential management changes for Mackerel. Moreover, we are waiting for guidance from the Minister on how DFO intends to support rebuilding of the Mackerel stock.

Recreational Fishery Improvements

- The impact of the recreational fishery on the health of the stock is largely unknown. DFO does not currently have the ability to limit the recreational fishery.

Any changes to the management of the recreational fishery will be Atlantic-wide and likely spearheaded from Ottawa.

Bait Fishery Improvements

- Controls on bait fishing are highly variable in each region. Changes are being considered in each region for bait fisheries throughout the Atlantic Provinces. In the Maritimes Region, the Delinquent Log Policy has been in effect for two years, whereas some regions do not have logbooks or have zero compliance to logbook submission. Document submission has increased in the Maritimes Region over this time.

- It has been reported that many people prefer to acquire their bait using handline as it has become difficult to use gillnets due to seal predation and efficiency issues. People are now recreationally fishing for Mackerel and using the catch for personal bait and, therefore, are not required or able to report. Some accounts state that people are

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landing up to 4,000 pounds daily under the guise of recreational fishing. There have been numerous requests to add handline to the bait licence so that harvesters could report their landings. Allowing the addition of handline to bait licences will improve the data collection on landings and provide documentation of the industry's requirements for bait.

- [redacted]

- In Quebec and Gulf Regions there is a daily limit of 2,000 lbs of Mackerel for bait fishing. [redacted] The bait conditions are already issued for this year so implementation for 2017 would incur a financial cost to the Department of approximately $12,000 ($10 per registered letter for 1200 licence holders). It is unknown if this measure will reduce the amount of mortality for makerel. [redacted] the cost of implementing this now versus next season is not warranted.

Commercial Fishery Improvements:

- If the Department proceeds to aggressively rebuild the Mackerel stock by keeping the TAC low, it will become necessary to make improvements to the collection of landings data as soon as possible so that DFO will have the ability to monitor the quota more closely.

- It is recommended that the frequency of logbook submission be increased for all the fleets from monthly to weekly. This will be an increased cost from $13 a month to $52 a month for the weir and vessel-based (VB) fleets. The trapnet fleet is already reporting weekly. The Mackerel weir licence conditions have already been issued, so the change would occur in 2018. This will partially address the science recommendation to improve the data collection.

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- Limits on the number of hand lines/hooks in the commercial fishery (including auto jiggers/mechanical devices) exist in Gulf, Quebec and Newfoundland. Currently, in the Maritimes there is no limit on the number of lines, hooks, or automatic devices that one can use. There has been an indication that there is a desire to reach some consistency among Regions on this,

- It is unknown how much handline gear is currently being used in the Maritimes Region. Therefore, it is recommended that over the 2017 fishing season that further consultations take place with the industry on what the limits should be and what the impact on licence holder would be. This will also provide an opportunity to see what work on Regional consistency is planned.

- At MARMAC all members were opposed to any increased monitoring or third-party verification of landings. They cited several reasons: it is overly burdensome, too costly, it would result in earlier closure and concerns over the ability of the Dockside Monitoring Companies to handle the additional work.

STRATEGIC CONSIDERATIONS

- The importance of Mackerel as bait in this Region is significant to several Maritimes Region fisheries (i.e., Lobster, groundfish, Snow Crab, and some large pelagic fisheries). DFO's ability to consult on any bait matters is difficult as there is no specific consultative forum for bait and it involves a large number of licence holders over several fisheries.

- Regardless of what level of TAC is approved, there is a likelihood that Maritimes Region licence holders will not feel any constraints to manage their effort as the Atlantic fishery is competitive and the fish arrive in the Maritimes Region earliest.

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Recommendations / Next Steps

- It is recommended that you approve the following changes for the Maritimes Region pelagic bait fishery:
  - [redacted]
  - [redacted]

- Given there is no consultative forum for the bait fishery, changes would be communicated through the Fisheries Roundtable.

- It is recommended that you approve the following changes for the Maritimes Region commercial Mackerel fishery:
  - Increase the frequency of logbook submission from monthly to weekly, to be implemented in 2017 for vessel-based gillnet and handline licences, and 2018 for Mackerel weir licences; and
  - Consult on limits to the number of lines/hooks in the commercial handline fishery (including auto jiggers/mechanical devices) through 2017 with a decision in place for the 2018 season.

Jacinta Berthier
Director
Fisheries Management

I concur,
Doug Wentzell
RD, Maritimes Region

I do not concur,
Doug Wentzell
RD, Maritimes Region

Regional Director General's Comments

C. Waters/V. Docherty/J. Berthier/D. Wentzell/km
Attachments: TAB A

Pages 2456 to / à 2484

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pages 2985 to / à 3013

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Fisheries and Oceans Pêches et Océans

TRANSMITTAL SLIP

Initial to indicate approval

Regional Director

Memo: Atlantic Mackerel Management Measures to promote Rebuilding

	Name	Date	Tel. No
Originator:	**Christa Waters**	27/04/17	**902-293-6541**
Supervisor	**Verna Docherty**	May 1/17	476-6640 ~~902-221-7249~~
Director:	**Jacinta Berthier**	2017-05-11	**902-240-3967**
Policy & Economics:			
Area Director:			
Regional Director:	**Doug Wentzell**	2017-05-11	
Regional Director, Science			
Regional Director General:			

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Dunn, Patricia

From: Wentzell, Doug
Sent: April-27-17 9:39 PM
To: Berthier, Jacinta
Subject: RE: Atlantic Mackerel TAC note - NHQ lead

K – Thanks. I'll ensure Morley is in the loop.

Doug

Doug Wentzell
Regional Director, Fisheries Management
Fisheries and Oceans Canada | Government of Canada
Doug.Wentzell@dfo-mpo.gc.ca | Telephone: 902-426-9962 | Facsimile: 902-426-7967

Directeur régional, Gestion des pêches
Pêches et Océans Canada | Gouvernement du Canada
Doug.Wentzell@dfo-mpo.gc.ca | Téléphone: 902-426-9962 | Télécopieur: 902-426-7967

From: Berthier, Jacinta
Sent: Thursday, April 27, 2017 3:12 PM
To: Wentzell, Doug <Doug.Wentzell@dfo-mpo.gc.ca>
Subject: Atlantic Mackerel TAC note - NHQ lead

Hi,
Please note, that this memo is being developed by NHQ as they lead on setting the TAC for the Atlantic Mackerel fishery. Usually, requests come via the RDG's office, but in this case it came directly to us so we are linking in the RDG's office so are aware of the comments and considerations we provided.
We were not provided copies of the Tabs for review, but we did input additional management measures we could take in the region to help improve overall management, including a temporary freeze on the issuance of any new licences for 2017 in regions where they are not limited entry. There has not been uptake of the latter in note.

There are regional management measures we can take to improve reporting timelines, including:

- Moving from monthly reporting to weekly reporting in the commercial fishery in 2017 – likely to come with some opposition based on AC meeting discussion.
- Moving from monthly reporting to weekly reporting in bait fisheries could be implemented in 2018 – for this year, conditions of licence are already available, and it would take a registered mail letter to replace these, or re-issuance by a fishery officer – both undesirable, and the outcome of having national advisory processes after regional fisheries open.
- We could add handline gear to bait licences to reduce the 'unreported' catch from those harvesters who may have previously fished recreationally for personal use to access this gear type. If this condition was added, individuals would be advised that amended conditions are available.

Please let me know if you have any questions. I expect a revised version with other regions' input may be circulated for approval soon.

JB
Jacinta Berthier

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s.16(2)

Director, Resource and Aboriginal Fisheries Management
Fisheries and Oceans Canada | Government of Canada
Jacinta.Berthier@dfo-mpo.gc.ca |Tel: 902 426-7681 | Cel: [redacted]

Directrice Gestion des ressources et pêches autochtones
Pêches et Océans Canada | Gouvernement du Canada
Jacinta.Berthier@dfo-mpo.gc.ca | Tél. : 902 426-7681 | Tél. cell. : [redacted]

If you have received this communication by mistake, please notify the sender immediately and delete the communication without printing, copying or forwarding it. Thank you.

Si vous avez reçu cette communication par erreur, veuillez en aviser l'expéditeur immédiatement et la supprimer sans l'imprimer, la copier, ou la faire suivre. Merci.

From: Waters, Christa
Sent: Monday, April 24, 2017 2:48 PM
To: Cawthray, Jenness <cawthrayj.Cawthray@dfo-mpo.gc.ca>; Dunne, Erin <Erin.Dunne@dfo-mpo.gc.ca>; Rivierre, Antoine <Antoine.Rivierre@dfo-mpo.gc.ca>; Mallet, Pierre <Pierre.Mallet@dfo-mpo.gc.ca>; Gaudet, Mario <Mario.Gaudet@dfo-mpo.gc.ca>; Doniol-Valcroze, Thomas <Thomas.Doniol-Valcroze@dfo-mpo.gc.ca>
Cc: Lester, Brian <Brian.Lester@dfo-mpo.gc.ca>; Berthier, Jacinta <Jacinta.Berthier@dfo-mpo.gc.ca>; Wentzell, Doug <Doug.Wentzell@dfo-mpo.gc.ca>
Subject: MECTS-#3766140-v3-2017_ATLANTIC_MACKEREL_MANAGEMENT_MEASURES_clw input.DOCX

Hello Jenness,
Thanks for your hard work on this. Not an easy one to write. Please find Maritimes input for your consideration.
Thanks,
Christa

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Patterson, Pauline

De: Rivierre, Antoine
Envoyé: April-28-17 10:56 AM
À: Cawthray, Jenness
Objet: RE: Monitoring measures for mackerel

Bonjour Jenness
Voici un résumé des mesures de gestion pour la pêche au maquereau au Québec.

1. **Loogbook**

For both, commercial and bailt licence in MFA 16 and 15, the vessel operator must acquire his booklet of Combined Forms from a Prequalified supplier, identified by Fisheries and Oceans Canada. When fishing, the licence holder/vessel operator must: maintain a true record of his fishing activities and his catches in the Logbook section.

2. **Hail-In**

Also for the commercial fishery in the MFA 16, the hail-in has been introduced in 2015. Before the beginning of a fishing trip, the licence holder must have entered into an agreement with a dockside monitoring company legally designated by Fisheries and Oceans Canada for the hail in under these conditions of licence.

3. **VMS**

For fishermen using purse seine in the MFA 15, VMS must be installed on board.

All these measures allow us to regularly and accurately monitor landings and will therefore be renewed in 2017. For the future, it is certain that the Elogs presented by the industry at the last AMAC meeting would be a very interesting option. We could also validate with industry whether the installation of the hail-in in zone 15 is feasible.

Also a point that has never been discussed but that could be interesting to document the fishing effort would be the tagging on gillnets.

Merci

Antoine

De : Cawthray, Jenness
Envoyé : April-10-17 10:19 AM
À : Mallet, Pierre; Dunne, Erin; Rivierre, Antoine; Gaudet, Mario; Thomas, Tashina; Waters, Christa
Cc : Lester, Brian
Objet : *Monitoring measures for mackerel*
Importance : Haute

Hi Everyone,

As I draft the memo it would be useful if you could provide some paragraphs on your monitoring procedures in each respective region, any changes that are planned, timelines and how your expect this to improve data collection in your region. If there are other procedures that can be implemented more long term then please let me know (ie e-logs). I appreciate that we have had already had some high level discussion on this during our conference calls; however, it would be useful if these procedure are drafted with more detail.

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I will use this either as part of the memo depending on how much information we have on this issue or as an attachment to memo.
Thanks!

Jenness Cawthray
Senior Fisheries and Aquaculture Management Officer |
Agent principal, Gestion des pêches et de l'aquaculture
Fisheries and Oceans | Pêches et océans
200 rue Kent Street - 13S013 Ottawa, ON, K1A 0E6
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s.21(1)(b)

Bruxer, Shelby

From: Burns, Adam
Sent: April-28-17 7:52 AM
To: Jenkins, Randy
Subject: Fw: INFO: Atlantic Mackerel TAC note - NHQ lead

Sent from my BlackBerry 10 smartphone on the Rogers network.

From: Lapointe, Sylvie <Sylvie.Lapointe@dfo-mpo.gc.ca>
Sent: Friday, April 28, 2017 7:34 AM
To: Burns, Adam
Subject: Fw: INFO: Atlantic Mackerel TAC note - NHQ lead

Fyi

From: Knight, Morley <Morley.Knight@dfo-mpo.gc.ca>
Sent: Friday, April 28, 2017 6:47 AM
To: Anderson, Kevin; Lapointe, Sylvie
Subject: FW: INFO: Atlantic Mackerel TAC note - NHQ lead

Some thoughts for your consideration.

From: Knight, Morley
Sent: April-28-17 7:46 AM
To: Wentzell, Doug
Subject: RE: INFO: Atlantic Mackerel TAC note - NHQ lead

Doug,

I didn't see the memo with my comments last night but would still like to see the science advice.

In my view the memo needs some significant revisions and the strategies need to be rethought. [redacted]

Morley

From: Wentzell, Doug
Sent: April-27-17 9:41 PM

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To: Knight, Morley
Subject: INFO: Atlantic Mackerel TAC note - NHQ lead

Hi Morley,

Wanted to let you know that the attached memo is being developed by NHQ as they lead on setting the TAC for the Atlantic Mackerel fishery. Usually, requests come via the RDG's office, but in this case it came directly to RM so I want to link you in so that you are aware of the comments and considerations we provided.

We were not provided copies of the Tabs for review, but we did input additional management measures we could take in the region to help improve overall management, including a temporary freeze on the issuance of any new licences for 2017 in regions where they are not limited entry. There has not been uptake of the latter in note.

There are regional management measures we can take to improve reporting timelines, including:

- Moving from monthly reporting to weekly reporting in the commercial fishery in 2017 – likely to come with some opposition based on AC meeting discussion.
- Moving from monthly reporting to weekly reporting in bait fisheries could be implemented in 2018 – for this year, conditions of licence are already available, and it would take a registered mail letter to replace these, or re-issuance by a fishery officer – both undesirable, and the outcome of having national advisory processes after regional fisheries open.
- We could add handline gear to bait licences to reduce the 'unreported' catch from those harvesters who may have previously fished recreationally for personal use to access this gear type. If this condition was added, individuals would be advised that amended conditions are available.

Please let me know if you have any questions. I expect a revised version with other regions' input may be circulated for approval soon.

Doug

Doug Wentzell
Regional Director, Fisheries Management
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JB

Jacinta Berthier
Director, Resource and Aboriginal Fisheries Management
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Sent: Monday, April 24, 2017 2:48 PM
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Cc: Lester, Brian <Brian.Lester@dfo-mpo.gc.ca>; Berthier, Jacinta <Jacinta.Berthier@dfo-mpo.gc.ca>; Wentzell, Doug <Doug.Wentzell@dfo-mpo.gc.ca>
Subject: MECTS-#3766140-v3-2017_ATLANTIC_MACKEREL_MANAGEMENT_MEASURES_clw input.DOCX

Hello Jenness,
Thanks for your hard work on this. Not an easy one to write. Please find Maritimes input for your consideration.
Thanks,
Christa

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s.21(1)(b)

Waters, Christa

From: Waters, Christa
Sent: April-28-17 12:29 PM
To: Wentzell, Doug; Berthier, Jacinta
Cc: Docherty, Verna
Subject: FW: Mackerel BN

Hello.
Jenness called me with some news. Given the climate, the BN is on hold. We are likely going to have a call next week

Christa

From: Cawthray, Jenness
Sent: April 28, 2017 12:08 PM
To: Waters, Christa
Cc: Lester, Brian
Subject: RE: Mackerel BN

Hi Christa,
We are in a bit of a holding pattern. I will call you.
Thanks,
Jenness

From: Waters, Christa
Sent: April-28-17 10:38 AM
To: Lester, Brian; Cawthray, Jenness
Cc: Berthier, Jacinta; Wentzell, Doug
Subject: Mackerel BN
Importance: High

Hello,

Sorry for the second email today (Jenness). I was just speaking with my Regional Director on mackerel. He told me that Morley wanted to have another regional review the briefing note before it went for approval.

Can you tell me when the next draft will be ready or when we can review?

Thanks,
Christa

Document available at: http://publications.gc.ca/collections/collection_2017/mpo-dfo/Fs70-5-2017-029-eng.pdf
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Fisheries and Oceans Canada | Pêches et Océans Canada
Ecosystems and Oceans Science | Sciences des écosystèmes et des océans

Canadian Science Advisory Secretariat (CSAS)

Research Document 2017/029

Quebec Region

Results of an informal survey of Canadian Atlantic mackerel commercial, recreational and bait fishers

Elisabeth Van Beveren, Martin Castonguay, Thomas Doniol-Valcroze, Daniel Duplisea

Fisheries and Oceans Canada
Institut Maurice-Lamontagne
850 route de la Mer
Mont-Joli, QC
G5H 3Z4

April 2017

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Thomas, Tashina

From: Cawthray, Jenness
Sent: May-01-17 10:28 AM
To: Rivierre, Antoine; Waters, Christa; Dunne, Erin; Mallet, Pierre; Thomas, Tashina; Gaudet, Mario
Cc: Docherty, Verna
Subject: RE: Information on key NL fisheries

We are in a bit of holding pattern on this and waiting direction. Hopefully, I will have more to tell you in the next few days.
Thanks,
Jenness

From: Rivierre, Antoine
Sent: April-28-17 3:44 PM
To: Cawthray, Jenness; Waters, Christa; Dunne, Erin; Mallet, Pierre; Thomas, Tashina; Gaudet, Mario
Cc: Docherty, Verna
Subject: RE: Information on key NL fisheries

Hello everyone.
Has a decision been made regarding the timing of the announcement of TAC and management measures?
I was informed today that several fishermen are already learning about opening dates and management measures.
The fishermen wish to be able to go to sea from May 15, whenever possible.

Thank you

Antoine

De : Cawthray, Jenness
Envoyé : April-25-17 10:47 AM
À : Waters, Christa; Dunne, Erin; Mallet, Pierre; Thomas, Tashina; Gaudet, Mario; Rivierre, Antoine
Cc : Docherty, Verna
Objet : RE: Information on key NL fisheries

No we open without a TAC. Discussion we had yesterday when you indicated that the fishery had opening without a TAC announcement in the past.

We are thinking that we could hold off until June or even into August as it is highly unlikely that TAC would be taken prior to the NL fishery opening.

From: Waters, Christa
Sent: April-25-17 10:43 AM
To: Cawthray, Jenness; Dunne, Erin; Mallet, Pierre; Thomas, Tashina; Gaudet, Mario; Rivierre, Antoine
Cc: Docherty, Verna
Subject: RE: Information on key NL fisheries
Importance: High

Are you suggesting that we DFO not open the Maritimes Region fishery?

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Christa

From: Cawthray, Jenness
Sent: April 25, 2017 11:40 AM
To: Dunne, Erin; Waters, Christa; Mallet, Pierre; Thomas, Tashina; Gaudet, Mario; Rivierre, Antoine
Subject: FW: Information on key NL fisheries
Importance: High

Hi All,
In the information I provided yesterday, I indicated there were no concerns if the fishery opens in May without a TAC. I would just like to re-check with the Regions as we have had further discussions at NHQ on postponing decision. I'm not sure yet if this the direction, it is only an option at this point. This would permit additional time to work on monitoring/reporting and also review of the genetic testing.
Thanks!
Jenness

From: Cawthray, Jenness
Sent: April-24-17 2:54 PM
To: Browne, Ryan
Cc: Lester, Brian; Buie, Jennifer
Subject: FW: Information on key NL fisheries
Importance: High

Mackerel:

1) timing on decision (what's outstanding and real drop dead dates on announcement/fishery opening)

- Varies by Region, Maritimes is the first to open. The Department would like TAC by May 15, with fishery open as soon as decision is made. In 2016, the first recorded catchers were second week of May in the Maritimes. This year, there have already been numerous requests to open the fishery in the Maritimes Regions.
- In Newfoundland, the fishery opens on various dates for fixed and mobile between August 1 and September 2; however, mackerel typically shows up late September –October. Quebec opens June 1 and Gulf May 15.
- The fishery has opened in the past without a TAC announcement. If the Maritimes opens the fishery. We don't see any negative implications to this.

2) inshore perspective / expectation – Expectations are that fishery should open very soon.

- There will likely be a negative reaction with a TAC announcement of 16,000t, particularly in NL where a 36,000t TAC was recommended by harvesters. Commercial harvesters and the provinces put forth recommendations to increase the TAC to 20,000t or 36,000t including undeclared catch estimated at 6,000t per year under current monitoring.

3) other considerations

- There are ongoing protests and it is a challenging time to communicate effectively. There is a significant amount of media coverage on the fishery.

Seals:

1) timing on decision (what's outstanding and real drop dead dates on announcement/fishery opening

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- The harvest of grey seals has ended for the season. There are currently no further plans to harvest grey seals in the near term; however, the harvest may continue later in the fall.
- The harp seals fishery has started and approximately 52,000 seals were harvested as of April 20th. It is expected that landing amounts per day will slow as harvesters move to other species (crab etc).

2) inshore perspective / expectation

[redacted]

3) other considerations

- From a communications perspective, media related inquires have dropped off significantly. If there are inquiries regarding the TAC announcement, Communications have lines prepared to address the sustainability of the resource and no ministerial decision.

From: Lester, Brian
Sent: April-24-17 1:03 PM
To: Cawthray, Jenness; Courchesne, Sandra; Kerwin, Jessica
Cc: Burns, Adam; Jenkins, Randy; Buie, Jennifer
Subject: Information on key NL fisheries

Hello ladies: Adam is looking for some information by end of day on 6 key species. What he is looking for (I believe) is to address 3 main issues (see headings below) . Use these three headings and fill in a couple of points for each in terms of NL. Key species/fisheries: 2+3 herring (Jess), Coastal and Gulf Halibut (Sandra), Northern cod (Sandra), mackerel and seals (Jenness). Jess I am not sure what you will be able to find out on that one given it is regionally managed and Advisory has already taken place but look at memo you found other day.

1) timing on decision (what's outstanding and real drop dead dates on announcement/fishery opening
2) inshore perspective / expectation
3) other considerations

Sent from my BlackBerry 10 smartphone on the Rogers network.

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Bruxer, Shelby

From: Baldwin, Jennifer
Sent: May-01-17 12:30 PM
To: Burns, Adam; Gibson, Andrea
Cc: Lester, Brian; Cawthray, Jenness; Jenkins, Randy
Subject: FW: INFORMAL: Advisory Committee on Mackerel

FYI – see below.

From: Trudeau, Miriam
Sent: May-01-17 12:26 PM
To: Baldwin, Jennifer
Cc: French, Christopher
Subject: RE: INFORMAL: Advisory Committee on Mackerel

That should work. I will flag to MINO and let you know if there is an issue.

Miriam ☺

From: Baldwin, Jennifer
Sent: Monday, May 1, 2017 10:07 AM
To: Trudeau, Miriam <Miriam.Trudeau@dfo-mpo.gc.ca>
Cc: French, Christopher <Christopher.French@dfo-mpo.gc.ca>
Subject: RE: INFORMAL: Advisory Committee on Mackerel

Hi Miriam,

We do prepare a record of discussion but the first priority has been decision note that will provide an overview of stakeholder views.

Would the decision memo work for now, followed by the ROD? The memo should be making its way up early next week.

Thoughts?
Jen
☺

From: Trudeau, Miriam
Sent: April-28-17 7:48 PM
To: Baldwin, Jennifer
Cc: French, Christopher
Subject: RE: INFORMAL: Advisory Committee on Mackerel

Hi Jen, sorry for the delay. I am catching up! It was a whirl wind today in MINO.

Is there a summary of the Committee that is usually drafted to share with participants or to act as a record of decisions? If not, let's go with the broad overview of who participated and what was discussed. If they need further details on a specific item, we can provide afterwards.

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Miriam ☺

From: Baldwin, Jennifer
Sent: Friday, April 28, 2017 2:42 PM
To: Trudeau, Miriam <Miriam.Trudeau@dfo-mpo.gc.ca>
Cc: French, Christopher <Christopher.French@dfo-mpo.gc.ca>
Subject: RE: INFORMAL: Advisory Committee on Mackerel

Hi Miriam,

Wondering if we can get a bit more information on this one? Any sense of what MINO is interested in seeing in a summary? Is it a broader overview of who participated and what was discussed etc. or, is it a more detailed package recounting the Science, undeclared catch, discussions on monitoring, and details on the various industry TAC *recommendations*?

Any information you can provide would be most appreciated.

Thanks!
☺

From: Trudeau, Miriam
Sent: April-28-17 12:57 PM
To: Richter, Julie; French, Christopher
Cc: Baldwin, Jennifer; Butcher, Ashley; Hopkins, Lillian; Malko, Carol; Patrick, Lindsey
Subject: INFORMAL: Advisory Committee on Mackerel

Hi,

MINO asked for a summary of the Advisory Committee on Mackerel.

Thanks!

Miriam ☺

Miriam Trudeau
A/Director, Departmental Liaison
Directrice / intérimaire, Liaison ministériel

Fisheries and Oceans Canada | Pêches et Océans Canada
200 Kent Street | 200, rue Kent | 15N137
Ottawa, Canada K1A 0E6
(613) 947-4561| miriam.trudeau@dfo-mpo.gc.ca

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Bruxer, Shelby

From: Burns, Adam
Sent: May-01-17 9:55 AM
To: Baldwin, Jennifer; Lester, Brian
Cc: Cawthray, Jenness; Jenkins, Randy; Gibson, Andrea; French, Christopher
Subject: RE: INFORMAL: Advisory Committee on Mackerel

I think it will be out of our shop by the end of the week.

From: Baldwin, Jennifer
Sent: May 1, 2017 9:51 AM
To: Burns, Adam <Adam.Burns@dfo-mpo.gc.ca>; Lester, Brian <Brian.Lester@dfo-mpo.gc.ca>
Cc: Cawthray, Jenness <cawthrayj.Cawthray@dfo-mpo.gc.ca>; Jenkins, Randy <Randy.Jenkins@dfo-mpo.gc.ca>; Gibson, Andrea <Andrea.Gibson@dfo-mpo.gc.ca>; French, Christopher <Christopher.French@dfo-mpo.gc.ca>
Subject: RE: INFORMAL: Advisory Committee on Mackerel

Is the decision memo ready? Are you suggesting giving MinO a bootleg copy or I can just tell them it is on it's way up, just let me know when.

From: Burns, Adam
Sent: May-01-17 8:56 AM
To: Baldwin, Jennifer; Lester, Brian
Cc: Cawthray, Jenness; Jenkins, Randy; Gibson, Andrea
Subject: Re: INFORMAL: Advisory Committee on Mackerel

We do prepare a record of dicussion but our first priority is the decision note that will provide an overview of stakeholder views. Would the decision memo work for now, followed by the ROD?

Sent from my BlackBerry 10 smartphone on the Rogers network.

From: Baldwin, Jennifer
Sent: Monday, May 1, 2017 8:45 AM
To: Lester, Brian
Cc: Cawthray, Jenness; Burns, Adam; Jenkins, Randy; Gibson, Andrea
Subject: FW: INFORMAL: Advisory Committee on Mackerel

See response from MinO below.

Jennifer

From: Trudeau, Miriam
Sent: April-28-17 7:48 PM
To: Baldwin, Jennifer
Cc: French, Christopher
Subject: RE: INFORMAL: Advisory Committee on Mackerel

Hi Jen, sorry for the delay. I am catching up! It was a whirl wind today in MINO.

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Is there a summary of the Committee that is usually drafted to share with participants or to act as a record of decisions? If not, let's go with the broad overview of who participated and what was discussed. If they need further details on a specific item, we can provide afterwards.

Miriam ☺

From: Baldwin, Jennifer
Sent: Friday, April 28, 2017 2:42 PM
To: Trudeau, Miriam <Miriam.Trudeau@dfo-mpo.gc.ca>
Cc: French, Christopher <Christopher.French@dfo-mpo.gc.ca>
Subject: RE: INFORMAL: Advisory Committee on Mackerel

Hi Miriam,

Wondering if we can get a bit more information on this one? Any sense of what MINO is interested in seeing in a summary? Is it a broader overview of who participated and what was discussed etc. or, is it a more detailed package recounting the Science, undeclared catch, discussions on monitoring, and details on the various industry TAC recommendations?

Any information you can provide would be most appreciated.

Thanks!
☺

From: Trudeau, Miriam
Sent: April-28-17 12:57 PM
To: Richter, Julie; French, Christopher
Cc: Baldwin, Jennifer; Butcher, Ashley; Hopkins, Lillian; Malko, Carol; Patrick, Lindsey
Subject: INFORMAL: Advisory Committee on Mackerel

Hi,

MINO asked for a summary of the Advisory Committee on Mackerel.

Thanks!

Miriam ☺

Miriam Trudeau
A/Director, Departmental Liaison
Directrice / intérimaire, Liaison ministériel

Fisheries and Oceans Canada | Pêches et Océans Canada
200 Kent Street | 200, rue Kent | 15N137
Ottawa, Canada K1A 0E6
(613) 947-4561| miriam.trudeau@dfo-mpo.gc.ca

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Bruxer, Shelby

From: Cawthray, Jenness
Sent: May-01-17 8:59 AM
To: Burns, Adam; Lester, Brian
Cc: Jenkins, Randy
Subject: RE: INFORMAL: Advisory Committee on Mackerel

Hi Adam,
Brian and I discussed the informal request on Friday. I can prepare a high level summary using key points from the draft memo I have if that works for you.
Let me know,
Jenness

From: Burns, Adam
Sent: May-01-17 8:56 AM
To: Baldwin, Jennifer; Lester, Brian
Cc: Cawthray, Jenness; Jenkins, Randy; Gibson, Andrea
Subject: Re: INFORMAL: Advisory Committee on Mackerel

We do prepare a record of dicussion but our first priority is the decision note that will provide an overview of stakeholder views. Would the decision memo work for now, followed by the ROD?

Sent from my BlackBerry 10 smartphone on the Rogers network.

From: Baldwin, Jennifer
Sent: Monday, May 1, 2017 8:45 AM
To: Lester, Brian
Cc: Cawthray, Jenness; Burns, Adam; Jenkins, Randy; Gibson, Andrea
Subject: FW: INFORMAL: Advisory Committee on Mackerel

See response from MinO below.

Jennifer

From: Trudeau, Miriam
Sent: April-28-17 7:48 PM
To: Baldwin, Jennifer
Cc: French, Christopher
Subject: RE: INFORMAL: Advisory Committee on Mackerel

Hi Jen, sorry for the delay. I am catching up! It was a whirl wind today in MINO.

Is there a summary of the Committee that is usually drafted to share with participants or to act as a record of decisions? If not, let's go with the broad overview of who participated and what was discussed. If they need further details on a specific item, we can provide afterwards.

Miriam ☺

From: Baldwin, Jennifer
Sent: Friday, April 28, 2017 2:42 PM

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To: Trudeau, Miriam <Miriam.Trudeau@dfo-mpo.gc.ca>
Cc: French, Christopher <Christopher.French@dfo-mpo.gc.ca>
Subject: RE: INFORMAL: Advisory Committee on Mackerel

Hi Miriam,

Wondering if we can get a bit more information on this one? Any sense of what MINO is interested in seeing in a summary? Is it a broader overview of who participated and what was discussed etc. or, is it a more detailed package recounting the Science, undeclared catch, discussions on monitoring, and details on the various industry TAC recommendations?

Any information you can provide would be most appreciated.

Thanks!
☺

From: Trudeau, Miriam
Sent: April-28-17 12:57 PM
To: Richter, Julie; French, Christopher
Cc: Baldwin, Jennifer; Butcher, Ashley; Hopkins, Lillian; Malko, Carol; Patrick, Lindsey
Subject: INFORMAL: Advisory Committee on Mackerel

Hi,

MINO asked for a summary of the Advisory Committee on Mackerel.

Thanks!

Miriam ☺

Miriam Trudeau
A/Director, Departmental Liaison
Directrice / intérimaire, Liaison ministériel

Fisheries and Oceans Canada | Pêches et Océans Canada
200 Kent Street | 200, rue Kent | 15N137
Ottawa, Canada K1A 0E6
(613) 947-4561| miriam.trudeau@dfo-mpo.gc.ca

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Butcher, Ashley

From: French, Christopher
Sent: Tuesday, May 2, 2017 12:51 PM
To: Butcher, Ashley; Malko, Carol
Cc: Burns, Adam; Chin, Melanie
Subject: FW: Fish Decisions
Attachments: MECTS-#3771829-v1-Information_on_Key_Fisheries_-_until_June_23__2017.docx

Hi Ashley and Carol,

Note updates, and that Trevor can speak to these points. Up to you if you wish to include them. Please see below.

Chris

Chris French
A/Senior Advisor to the ADM, Ecosystems and Fisheries Management
Conseiller principal intérimaire auprès du SMA, Gestion des écosystèmes et des pêches
Fisheries and Oceans Canada I Pêches et Océans Canada
christopher.french@dfo-mpo.gc.ca / Tel: 613-949-9028

From: Burns, Adam
Sent: 2017–May-02 12:49 PM
To: Lapointe, Sylvie
Cc: French, Christopher
Subject: Fw: Fish Decisions

FYI, science just got back to me on this. Jean has indicated it doesn't have to be added to the doc, but if discussion goes into details , Trevor can speak to this.

AB

Sent from my BlackBerry 10 smartphone on the Rogers network.

From: Landry, Jean <Jean.Landry@dfo-mpo.gc.ca>
Sent: Tuesday, May 2, 2017 12:34 PM
To: Burns, Adam
Subject: RE: Fish Decisions

Few suggestions made for your consideration. Sorry for the delay to respond.

Jean

Jean Landry
Director , Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Jean.Landry@dfo-mpo.gc.ca / Tel: 613-993-0029

Directeur, Sciences halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Jean.Landry@dfo-mpo.gc.ca / Tél. : 613-993-0029

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De : Burns, Adam
Envoyé : 2 mai 2017 09:37
À : Landry, Jean <Jean.Landry@dfo-mpo.gc.ca>; McPherson, Arran <Arran.McPherson@dfo-mpo.gc.ca>; Perry, Jacqueline <Jacqueline.Perry@dfo-mpo.gc.ca>; Wentzell, Doug <Doug.Wentzell@dfo-mpo.gc.ca>; Quinn, Frank <Frank.Quinn@dfo-mpo.gc.ca>; Lemire, Maryse <Maryse.Lemire@dfo-mpo.gc.ca>; Gilbert, Scott <Scott.Gilbert@dfo-mpo.gc.ca>; Thomson, Andrew <Andrew.Thomson@dfo-mpo.gc.ca>
Objet : FW: Fish Decisions
Importance : Haute

Hi,

See attached a short summary of key upcoming minister fishery decisions through the end of Parliament. If you have any "show-stopper" comments, please send them to me ASAP.

Adam

From: French, Christopher
Sent: May 2, 2017 9:31 AM
To: Butcher, Ashley <Ashley.Butcher@dfo-mpo.gc.ca>
Cc: Burns, Adam <Adam.Burns@dfo-mpo.gc.ca>
Subject: FW: Fish Decisions

Hi Ashley,

Just received from Adam. Sylvie hasn't yet reviewed.

Chris

Chris French
A/Senior Advisor to the ADM, Ecosystems and Fisheries Management
Conseiller principal intérimaire auprès du SMA, Gestion des écosystèmes et des pêches
Fisheries and Oceans Canada I Pêches et Océans Canada
christopher.french@dfo-mpo.gc.ca / Tel: 613-949-9028

From: Burns, Adam
Sent: 2017–May-02 9:31 AM
To: French, Christopher
Cc: Lapointe, Sylvie
Subject: Fish Decisions

Hi,

Here you go.

AB

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Upcoming Fisheries Decisions

Northern Cod

1) Timing on decision:
   - Fishing targeted to start as per the approved management plan (e.g. May/June proposed by FFAW)
2) Initial Advice
   - Recommendation for stewardship not fully fleshed out yet (options at the moment are status quo, fully approve the Newfoundland and Labrador (NL) Groundfish industry Development Council proposal (estimated 16,000 to 18,000t) or something in between).
3) Inshore perspective / expectation:
   - Newfoundland and Labrador Groundfish industry Development Council presented a 2017 Stewardship fishery management plan at the advisory meeting in early April.
4) Other considerations:
   - While the stock is showing signs of improvements, DFO stock assessment in March 2016 indicated the stock is still in the lower half of the critical zone. The April 2017 science update noted that abundance and biomass indices from the autumn DFO survey in 2016 continued an increasing trend since 2012 and the 2016 the biomass index was 7% higher than in 2015.
   - However, it should be noted that two of the main cod's prey species (capelin and shrimp) are at low levels and could compromise the future growth of this cod stock.
   - The House Standing Committee tabled their report on Northern Cod March 20, 2017 which calls for emphasis on the precautionary approach and long term stock rebuilding considerations in management decisions to ensure sustainability of the northern cod. A Government Response is being prepared for tabling in early June.

Mackerel

1) Timing on decision
   - Varies by Region, Maritimes and Gulf is the first to open mid-May. The Department would like TAC by May 15, with fishery open as soon as decision is made. In 2016, the first recorded catchers were second week of May in the Maritimes. This year, there have already been numerous requests to open the fishery in the Maritimes Regions.
   - In Newfoundland, the fishery opens on various dates for fixed and mobile between August 1 and September 2; however, mackerel typically shows up late September –October.
   - Quebec opens June 1.
   - The fishery has opened in the past without a TAC announcement. If the Maritimes and Gulf opens the fishery, no foreseen negative implications to this. TAC

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decision should be announced prior to the start of the NL season (August 1) when a larger portion of fish could be harvested.

2) Initial Advice
- A commercial TAC in the range of 10,000 – 12,000 t is within the scope of the science advice. However, the stock is still in the critical zone and any increase in the TAC will certainly be of concerns to many groups. Consideration to implementation of the 60/40 split between the inshore and seiners, and to the ongoing participation of the exploratory licenses (seiners) in the fishery is ongoing. Final advice is expected within the next week.

3) Inshore perspective / expectation – Expectations are that fishery should open very soon.
- There may be some negative reaction to a TAC of less than what many in the industry supported (36,000t), however this level is not within the scope of the science advice.

Seals:

1) Timing on decision
- The harvest of grey seals has ended for the season. There are currently no further plans to harvest grey seals in the near term; however, the harvest may continue later in the fall.
- The harp seals fishery is nearly complete and approximately 76,913 seals were harvested as of April 30th. It is expected that total landings will be approximately 100,000 this year.
- Given the harvest is nearly complete, a deferral of setting a TAC for this fishery is possible at this time.

2) Initial Advice:
- New Science advice supporting a harvest of 34,500 grey seals. No new advice for harp or hooded therefore a roll over is recommended pending new advice.

3) Inshore perspective / expectation
- [redacted] they are of the view that it should be managed as an ecosystem predator to cod and other groundfish and therefore TACs should be maintained at minimum at the current level of 60,000.

Gulf Atlantic Halibut

1) Timing on decision:
- Fishery opens May 15th. Fleets will start fishing May 15 (subject to ice)

2) Initial Advice
- Recommended Total Allowable Catch (TAC) is 1245t (208t increase which includes a 50t Use of Fish allocation)

3) Inshore perspective / expectation:
- Fish Food and Allied Workers Union (FFAW) proposed a 1500t TAC (~ 50% TAC increase). Supports the need for long line and tagging survey in order to

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evaluate status of Spawning Stock Biomass (SSB) and develop a Precautionary Approach (PA).

Gulf Greenland halibut (4RST):

1) Timing on decision: Fishery opens May 15.

2) Initial Advice: Rollover of TAC (4,500 t)

3) Inshore perspective / expectation: Most harvesters support TAC rollover

Unit 1 Redfish ((3Pn, 4RST, 4Vn January to May):

1) Timing on decision: Fishery opens May 15.

2) Initial Advice: Rollover of the index fishery at 2,000 t.

3) Inshore perspective / expectation: Most harvesters support TAC rollover

Pacific Salmon:

1) Timing on decision: Advice is expected by mid-to-late May

2) Initial Advice: In general, returns are expected to be at a low-to-moderate level which will likely create challenges in providing meaningful commercial opportunities in many rivers while addressing Indigenous access and reconciliation.

3) Inshore perspective / expectation



Greenland halibut 0B fixed gear competitive fishery conversion to Individual Transferable Quotas (ITQs)

1) Timing on decision:
   - The competitive fishery traditionally opens first week of June (subject to ice). This issue has been ongoing for many years and could be deferred until 2018.
2) Initial Advice
   - Preliminary recommended is to move the fishery to ITQs for 2017 and allocate 180 t (20%) for adjacent Nunauvt enterprises with the remainder split based on catch history.

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3) Inshore perspective / expectation:
- There are 3 different fleets (inshore, mid-shore and fixed gear >100) with access to the 900t fixed gear competitive fishery which includes indigenous enterprises from both Newfoundland (Labrador Innu) and Nunavut (Inuit).
- There are 5 inshore Newfoundland harvesters represented by the FFAW. The majority (3 of 5) of the inshore NL harvesters do not want to move to ITQs given their newly acquired access and limited catch history.
- Both the Innu and Nunavut Inuit enterprises support moving to ITQs but views on sharing (adjacency vs catch history) are divergent (Innu suggest 200t vs Nunavut suggests 360t for adjacency).
- Others support only a 10% amount for adjacency or to maintain the competitive regime.

Establishment of a Total Allowable Take for a 3 year period for eastern Hudson Bay Beluga in the Nunavik Marine Region

1) Timing on decision:
- A decision letter from the Nunavik Marine Region and Eeyou Marine Region Wildlife Board's was received March 17, 2017. As per the terms of the Nunavut Land and the Eeyou Marine Region Claims Agreements, the Minister has 60 days to either accept or reject the decision. The Minister needs to make a decision by May 16, 2017. The subsistence hunt typically starts in June depending upon ice conditions.

2) Wildlife Board perspective / expectation:
- The Board's decisions are similar to the previous 3 year management plan that expired on January 1, 2017.
- The Board's and Makivik Corporation would be very pleased if the new 3 year plan were to be approved.

3) Other considerations:
- The Department will be working with/consulting with Inuit, Makivik Corporation and the respective Board's in the coming years in hopes of implementing the precautionary approach in this fishery.

[redacted]

Proposed modifications to existing narwhal total allowable harvest levels in the Nunavut Settlement Area

1) Timing on decision:
- Two decision letters from the Nunavut Wildlife Management Board were received March 20 and March 24, 2017. As per the terms of the Nunavut Agreement, the Minister has 60 days to either accept or reject the decisions. The Minister needs to make a decision by May 19 and 23, 2017 respectively. The subsistence hunt typically starts in June/July depending upon ice conditions.

2) Wildlife Board perspective / expectation:

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- The Board, Nunavut Tunngavik Incorporated and Inuit would be very happy if the Board's decisions were accepted

3) Other considerations:

- The department is in the process of requesting an extension to the decision (a minimum of 30 days) from the Nunavut Wildlife Management Board

[redacted]

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Butcher, Ashley

From: Butcher, Ashley
Sent: Tuesday, May 2, 2017 11:33 AM
To: Ministerial Briefing / Breffage ministériel (DFO/MPO)
Cc: Malko, Carol; Hopkins, Lillian; Collister, David; French, Christopher
Subject: MIN Brief - UPDATED Document on Fisheries Info
Attachments: MIN Brief Info on Key Fisheries.docx

Apologies –

Please use the attached for the MIN brief. There was a small edit from the version sent earlier. This document is not classified.

Thanks,

Ashley Butcher
DMO
(613) 993-1774

Pages 2542 to / à 2545
are duplicates of
sont des duplicatas des
pages 2618 to / à 2621

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Patrick, Lindsey

From: Martin, Francine
Sent: Tuesday, May 2, 2017 2:14 PM
To: Denis, Joanne; Patrick, Lindsey; Baldwin, Jennifer; Wallace, Dorothy; Hopkins, Lillian; Rajotte, Estelle; Chin, Melanie; Hodgins, Jill; Mongrain, Johanne; Husainy, Syed; Berry, Anne; Stanek, Frank; Saindon, Carole; Perron, Heloise; Gagnier, Jean-Sébastien; Prieur, Cloe; Gillis, Sheldon; Trudeau, Miriam; Horgan, Carole; Nielsen, Ingrid; Parent, Sonia; Woodford, Jan; Boriel, Michele; Williams, Wendy; Hardy, Matthew A (Moncton); Hill, Kevin; Calla, Karen; Olson, Kathleen; Marroquin, René; Hains, Denis; McPherson, Arran; Moore, Wayne; Carisse, Christina; Butcher, Ashley; Labelle-Rice, Jolyane; McIntyre, Alexis; Amlani, Ashraf; McNicoll, Caroline; Smith, Kathleen; Lepine-Darwiche, Tanya; Williams, Lisa; Wilson, Patricia F; 'Abourizk, Elias (Elias.Abourizk@pco-bcp.gc.ca)'; O'Halloran, Mark; Fagan, Ashley; Seguin, Natalie; Cameron, Eleanor; Bornais, Stephen; White, Andrea; Murray, Marie-Michèle; Lennon, Keith; Simon, Patrice (Ottawa); Landry, Jean; Arcand, Annie; McConnery, Roxanne; Millar, Harvey; Jennings, Valérie; Parisien, Renée; Bernier, Michèle L (Moncton); Mellon, Melanie; Munro, Clark; Bell, Patricia; Beamish, Kayla; LeBreton, Ginette; McDonald, Jane; Lockhart, Tara; Penney, Matthew; Gareau, Laura; Lavigne, Kevin; Reynolds, Justine; SP-SADMO / BSMAP-PS (DFO/MPO); Chow, Vance; Quinn, Caroline; Piché, Ashley; Mendoza, Rob; Denis, Joanne; Petersen, Krista; Blumberga, Una; Mendoza, Rob
Subject: QP index and approved QP note
Attachments: QP Index- May2.doc; CCG - Tofino Incident - May 2.docx; Public request-Canadian Environmental Protection Act-May1.docx

Good afternoon,

Attached is the QP index and approved QP notes for May 2, 2017.

Merci

Francine Martin

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May 1, 2017

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ATLANTIC MACKEREL FISHERY

General Lines:

- Our government is committed to evidence-based decision-making. In fisheries management, this means conducting regular stock assessments.
- We undertook a new stock assessment for Atlantic mackerel this spring.
- While the science assessment shows some preliminary signs of rebuilding, the stock is still considered to be in the critical zone under the precautionary approach framework.
- This updated assessment has been discussed with members of the Atlantic Mackerel Advisory Committee and input from stakeholders will assist in future decisions for this fishery.

If pressed:

- We are aware of the concerns of inshore harvesters around access to mackerel, especially for use as bait in other fisheries.
- We will work with those involved in the mackerel fishery to develop options for improving real-time catch information on the progress of the fishery before the next fishing season in 2017.

If pressed on judicial review:

- The Department will not comment on this matter, as it currently before the Court.

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Message général:

- Le gouvernement s'est engagé à prendre des décisions fondées sur des données probantes. Pour la gestion des pêches, cela signifie procéder régulièrement à des évaluations des stocks.

- Ce printemps, nous avons entrepris une nouvelle évaluation du stock de maquereau.

- Même si l'évaluation scientifique montre de premiers signes de rétablissement, le stock est toujours considéré comme se trouvant dans la zone critique selon le cadre de l'approche de précaution.

- Cette évaluation actualisée a été étudiée avec les membres du Comité consultatif sur le maquereau et les commentaires des intervenants seront pris en compte dans les futures décisions concernant cette pêche.

Si on insiste:

- Nous connaissons le point de vue des pêcheurs côtiers au sujet de leur accès au maquereau, en particulier ceux qui l'utilise comme appât pour d'autres pêches.

- Nous travaillerons avec les intervenants de la pêche au maquereau bleu afin de préparer des options permettant d'améliorer l'information de prises en temps réel sur l'avancement de la pêche avant la prochaine saison en 2017.

En cas de questions sur le contrôle judiciaire

- Le Ministère ne peut commenter cette affaire puisqu'elle se trouve actuellement devant les tribunaux.

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Background:

s.21(1)(b)

s.23

- TAC decisions are based on long-term conservation and sustainability principles and take into consideration the department's management plan, scientific advice, as well as consultation with industry.
- The (2014) science stock assessment indicated the Atlantic mackerel stock biomass was at the lowest observed level in the time series (1967-2013). The assessment also indicated the stock was over-exploited from 2010-2013 and has continued to decline at recent harvest levels.
- In the absence of new science advice, and following consultation with its key stakeholder group, the Atlantic Mackerel Advisory Committee, the TAC was maintained at 8,000 tonnes in 2016.
- Given significant catches by the Newfoundland inshore fleet, mainly in 3K, in early October 2016, the TAC level was reached and the fishery closed.
- This fishery has never been closed in the past given that the TAC levels were never reached. Commercial landings in this fishery have been in the range of 5,000t per year in 2014 and 2015.
- To address some harvesters' concerns regarding access to mackerel for bait last fall, those harvesters with gillnet personal use bait licences were permitted to use hand lines for just over two weeks in early November with a reduced daily limit. PEI harvesters have expressed their interest to permit the use of handlines in the bait fishery if the commercial fishery were to close at any point in 2017.
- Some inshore harvesters have recommended that any harvests by seine licence holders be limited to 40% of the TAC irrespective of vessel size. Currently <65' seine vessels fish against the inshore 60% portion of the quota.
- The offshore fleet (large seiners) did not have an opportunity to fish in 2016 as they were just starting when the Department closed the fishery.
- On November 9, 2016, Barry Group Inc., Pride Ventures Inc., 67108 Newfoundland & Labrador Inc., and Gauvin and Noel Compagnie Inc. filed a judicial review application in the Federal Court challenging decisions made to close the 2016 Atlantic Mackerel Fishery in all areas on October 14, 2016, and subsequently, on October 21, 2016 to maintain the closure as a result of the assessment of commercial catch rates. The Applicants submit that the decisions effectively prevented the over 65' fleet (to which they belong) to harvest their share of the total allowable catch.
- The FFAW had requested that the Minister increase the available quota to Canadian inshore harvesters in 2016 based on good catch rates.
- Fishermen have reported a significant number of small fish throughout the Gulf of St. Lawrence in 2016 which may be the sign of good recruitment.
- Science has developed a Limit Reference Point for Atlantic mackerel and undertaken a new stock assessment late this winter. While the assessment shows some positive signs of growth, the stock is still well within the critical zone as defined by the Precautionary Approach Framework.
- There is a strong industry push to significantly increase the TAC this year, particularly in NL, however, that is not supported by the latest stock assessment.
- Discussion with stakeholders took place on March 30, via the Atlantic Mackerel Advisory Committee to look at management measures for 2017 and 2018 including a TAC, better and more real time catch monitoring in commercial and bait fisheries.

Contexte

- Le TAC est établi en fonction des principes de conservation et de durabilité à long terme en tenant compte du plan de gestion du Ministère, des avis scientifiques et des consultations avec les intervenants de l'industrie.
- Les résultats les plus récents (2014) de l'évaluation scientifique du stock indiquent que la biomasse du stock de maquereau bleu était au niveau le plus bas observé au cours de la série chronologique (1967-2013). L'évaluation indiquait aussi que le stock avait été surexploité de 2010 à 2013 et que le stock continue à diminuer jusqu'à atteindre les récents niveaux de prises.
- En l'absence d'un nouvel avis scientifique et à la suite des consultations menées auprès du groupe d'intervenants clés, le Comité consultatif du maquereau bleu, le TAC a été maintenu à 8 000 tonnes en 2016.
- Du fait des prises importantes réalisées par la flottille côtière de Terre-Neuve au début du mois d'octobre 2016, le niveau du TAC a été atteint et la pêche fermée.
- Cette pêche n'a jamais été fermée dans le passé puisque les niveaux du TAC n'ont jamais été atteints. Les débarquements de cette pêche sont de l'ordre de 5 000 t par an en 2014 et 2015.
- Afin de répondre aux préoccupations de certains pêcheurs concernant l'accès au maquereau bleu en tant que poisson-appât l'automne dernier, les pêcheurs qui détiennent un permis d'appât pour utilisation personnelle au filet maillant ont été

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s.21(1)(b)
s.23

autorisés à utiliser les lignes à main pendant un peu plus de deux semaines au début du mois de novembre, avec une limite quotidienne réduite. Les pêcheurs de l'Î.-P.-É. ont demandé à ce que l'utilisation de palangrottes soit autorisée dans la pêche de poissons-appâts si la pêche commerciale devait fermer à un moment quelconque en 2017.

- Certains pêcheurs côtiers ont recommandé de limiter la récolte des titulaires de permis de pêche à la senne à 40 % du TAC, quelle que soit la taille du bateau. À l'heure actuelle, les prises des bateaux de moins de 65 pi qui pratiquent la pêche à la senne comptent dans les 60 % du quota attribués à la pêche côtière.
- La flottille hauturière (grandes sennes) n'a pas encore eu l'occasion de pêcher puisqu'elle commençait à peine lorsque le Ministère a fermé la pêche la semaine dernière. Elle envisagerait une action en justice.
- Le 9 novembre 2016, Barry Group Inc., Pride Ventures Inc., 67108 Newfoundland & Labrador Inc. et Gauvin and Noel Compagnie Inc. ont déposé une demande de contrôle judiciaire devant la Cour fédérale, contestant les décisions de fermer la pêche au maquereau bleu de 2016 dans toutes les zones le 14 octobre 2016 puis, le 21 octobre, celle de maintenir cette fermeture à la suite de l'évaluation des taux de capture commerciale. Les plaignants affirment que ces décisions ont en fait empêché la flottille de plus de 65 pieds (dont ils font partie) de récolter sa part du total autorisé des captures.
- La FFAW a demandé au ministre d'augmenter les quotas disponibles pour les pêcheurs côtiers canadiens en 2016 compte tenu des bons taux de prises enregistrés récemment.
- Les pêcheurs ont signalé un grand nombre de petits poissons dans tout le golfe du Saint-Laurent en 2016, ce qui pourrait dénoter un bon recrutement.
- Le Secteur des sciences a élaboré un point de référence limite pour le maquereau et a effectué une nouvelle évaluation du stock à la fin de l'hiver. Même si l'évaluation a relevé quelques signes positifs de croissance, le stock se trouve toujours largement dans la zone critique selon le cadre de l'approche de précaution.
- Il y a de fortes pressions de l'industrie pour augmenter sensiblement le TAC cette année, en Terre-Neuve-et-Labrador en particulier, mais une telle décision n'est pas étayée par la dernière évaluation du stock.
- Les discussions avec les intervenants se sont déroulées le 30 mars en marge du Comité consultatif sur la maquereau. Elles portaient sur les mesures de gestion pour 2017 et 2018, y compris un TAC, ainsi que l'amélioration et l'intensification de la surveillance des prises en temps réel dans les pêches commerciales et de poissons-appâts.

Name of Analyst: Jenness Cawthray
Sector: Ecosystems and Fisheries Management
Telephone number: (613) 998-1524

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Patterson, Pauline

De: Rivierre, Antoine
Envoyé: May-03-17 9:32 AM
À: Boudreau, Suzie
Objet: MECTS-#3771829-v1-Information_on_Key_Fisheries_-_until_June_23__2017.DOCX
Pièces jointes: MECTS-#3771829-v1-Information_on_Key_Fisheries_-_until_June_23__2017.DOCX

Mes commentaires.

Il me semble que les discussions sur le TAC du maquereau étaient plus précises que ce qui est mentionné dans le texte.

A.

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s.21(1)(b)

Upcoming Fisheries Decisions

Northern Cod

1) Timing on decision:
   - Fishing targeted to start as per the approved management plan (e.g. May/June proposed by FFAW)
2) Initial Advice
   - Recommendation for stewardship not fully fleshed out yet (options at the moment are status quo, fully approve the Newfoundland and Labrador (NL) Groundfish industry Development Council proposal (estimated 16,000 to 18,000t) or something in between).
3) Inshore perspective / expectation:
   - Newfoundland and Labrador Groundfish industry Development Council presented a 2017 Stewardship fishery management plan at the advisory meeting in early April.
4) Other considerations:
   - While the stock is showing signs of improvements, DFO stock assessment in March 2016 indicated the stock is still in the lower half of the critical zone. The April 2017 science update noted that abundance and biomass indices from the autumn DFO survey in 2016 continued an increasing trend since 2012 and the 2016 the biomass index was 7% higher than in 2015.
   - The House Standing Committee tabled their report on Northern Cod March 20, 2017 which calls for emphasis on the precautionary approach and long term stock rebuilding considerations in management decisions to ensure sustainability of the northern cod. A Government Response is being prepared for tabling in early June.

Mackerel

1) Timing on decision
   - Varies by Region, Maritimes and Gulf is the first to open mid-May. The Department would like TAC by May 15, with fishery open as soon as decision is made. In 2016, the first recorded catchers were second week of May in the Maritimes. This year, there have already been numerous requests to open the fishery in the Maritimes Regions.
   - In Newfoundland, the fishery opens on various dates for fixed and mobile between August 1 and September 2; however, mackerel typically shows up late September –October.
   - Quebec opens June 1.
   - The fishery has opened in the past without a TAC announcement. If the Maritimes and Gulf opens the fishery, no foreseen negative implications to this. TAC decision should be announced prior to the start of the NL season (August 1) when a larger portion of fish could be harvested.

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2) Initial Advice
- A commercial TAC ~~in the range~~ of 10,000 ~~–12,000~~ t is within the scope of the science advice. Consideration to implementation of the 60/40 split between the inshore and seiners, and to the ongoing participation of the exploratory licenses (seiners) in the fishery is ongoing. Final advice is expected within the next week.

3) Inshore perspective / expectation – Expectations are that fishery should open very soon.
- There may be some negative reaction to a TAC of less than what many in the industry supported (36,000t), however this level is not within the scope of the science advice.

Seals:

1) Timing on decision
- The harvest of grey seals has ended for the season. There are currently no further plans to harvest grey seals in the near term; however, the harvest may continue later in the fall.
- The harp seals fishery is nearly complete and approximately 76,913 seals were harvested as of April 30th. It is expected that total landings will be approximately 100,000 this year.
- Given the harvest is nearly complete, a deferral of setting a TAC for this fishery is possible at this time.

2) Initial Advice:
- New Science advice supporting a harvest of 34,500 grey seals. No new advice for harp or hooded therefore a roll over is recommended pending new advice.

3) Inshore perspective / expectation
- [redacted] they are of the view that it should be managed as an ecosystem predator to cod and other groundfish and therefore TACs should be maintained at minimum at the current level of 60,000.

Gulf Atlantic Halibut

1) Timing on decision:
- Fishery opens May 15th. Fleets will start fishing May 15 (subject to ice)

2) Initial Advice
- Recommended Total Allowable Catch (TAC) is 1245t (208t increase which includes a 50t Use of Fish allocation)

3) Inshore perspective / expectation:
- [redacted]

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s.21(1)(b)

Gulf Greenland halibut (4RST):

1) Timing on decision: Fishery opens May 15.

2) Initial Advice: Rollover of TAC (4,500 t)

3) Inshore perspective / expectation: Most harvesters support TAC rollover

Unit 1 Redfish ((3Pn, 4RST, 4Vn January to May):

1) Timing on decision: Fishery opens May 15.

2) Initial Advice: Rollover of the index fishery at 2,000 t.

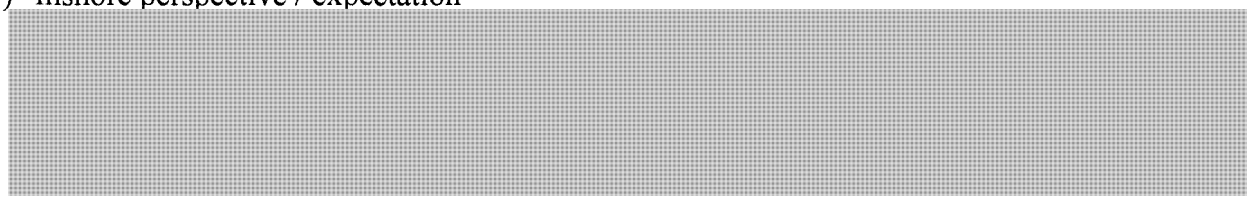
3) Inshore perspective / expectation: Most harvesters support TAC rollover

Pacific Salmon:

1) Timing on decision: Advice is expected by mid-to-late May

2) Initial Advice: In general, returns are expected to be at a low-to-moderate level which will likely create challenges in providing meaningful commercial opportunities in many rivers while addressing Indigenous access and reconciliation.

3) Inshore perspective / expectation



Greenland halibut 0B fixed gear competitive fishery conversion to Individual Transferable Quotas (ITQs)

1) Timing on decision:
   - The competitive fishery traditionally opens first week of June (subject to ice). This issue has been ongoing for many years and could be deferred until 2018.
2) Initial Advice
   - Preliminary recommended is to move the fishery to ITQs for 2017 and allocate 180 t (20%) for adjacent Nunauvt enterprises with the remainder split based on catch history.
3) Inshore perspective / expectation:
   - There are 3 different fleets (inshore, mid-shore and fixed gear >100) with access to the 900t fixed gear competitive fishery which includes indigenous enterprises from both Newfoundland (Labrador Innu) and Nunavut (Inuit).

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- There are 5 inshore Newfoundland harvesters represented by the FFAW. The majority (3 of 5) of the inshore NL harvesters do not want to move to ITQs given their newly acquired access and limited catch history.
- Both the Innu and Nunavut Inuit enterprises support moving to ITQs but views on sharing (adjacency vs catch history) are divergent (Innu suggest 200t vs Nunavut suggests 360t for adjacency).
- Others support only a 10% amount for adjacency or to maintain the competitive regime.

Establishment of a Total Allowable Take for a 3 year period for eastern Hudson Bay Beluga in the Nunavik Marine Region

1) Timing on decision:
   - A decision letter from the Nunavik Marine Region and Eeyou Marine Region Wildlife Board's was received March 17, 2017. As per the terms of the Nunavut Land and the Eeyou Marine Region Claims Agreements, the Minister has 60 days to either accept or reject the decision. The Minister needs to make a decision by May 16, 2017. The subsistence hunt typically starts in June depending upon ice conditions.
2) Wildlife Board perspective / expectation:
   - The Board's decisions are similar to the previous 3 year management plan that expired on January 1, 2017.
   - The Board's and Makivik Corporation would be very pleased if the new 3 year plan were to be approved.
3) Other considerations:
   - The Department will be working with/consulting with Inuit, Makivik Corporation and the respective Board's in the coming years in hopes of implementing the precautionary approach in this fishery.

Proposed modifications to existing narwhal total allowable harvest levels in the Nunavut Settlement Area

1) Timing on decision:
   - Two decision letters from the Nunavut Wildlife Management Board were received March 20 and March 24, 2017. As per the terms of the Nunavut Agreement, the Minister has 60 days to either accept or reject the decisions. The Minister needs to make a decision by May 19 and 23, 2017 respectively. The subsistence hunt typically starts in June/July depending upon ice conditions.
2) Wildlife Board perspective / expectation:
   - The Board, Nunavut Tunngavik Incorporated and Inuit would be very happy if the Board's decisions were accepted
3) Other considerations:
   - The department is in the process of requesting an extension to the decision (a minimum of 30 days) from the Nunavut Wildlife Management Board

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Cormier, Mélanie

De: Boudreau, Suzie
Envoyé: 3 mai 2017 09:06
À: Rivierre, Antoine; Trottier, Steve
Objet: TR: Fish Decisions
Pièces jointes: MECTS-#3771829-v1-Information_on_Key_Fisheries_-_until_June_23__2017.DOCX

Importance: Haute

Pvi et si jamais vous avez des commentaires.

De : Gagné, Danie **De la part de** Lemire, Maryse
Envoyé : 2 mai 2017 15:49
À : Gros-Louis, Denis
Cc : Wilkins, Kevin; Boudreau, Suzie
Objet : TR: Fish Decisions
Importance : Haute

Bonjour,

Avez-vous des commentaires pouvant être fournis rapidement? Une réponse même nil serait appréciée.

Merci,

Danie Gagné pour :
Maryse Lemire
Directrice régionale, Gestion des pêches
Pêches et Océans Canada – Région du Québec / Gouvernement du Canada
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De : Burns, Adam
Envoyé : 2 mai 2017 09:37
À : Landry, Jean; McPherson, Arran; Perry, Jacqueline; Wentzell, Doug; Quinn, Frank; Lemire, Maryse; Gilbert, Scott; Thomson, Andrew
Objet : FW: Fish Decisions
Importance : Haute

Hi,

See attached a short summary of key upcoming minister fishery decisions through the end of Parliament. If you have any "show-stopper" comments, please send them to me ASAP.

Adam

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From: French, Christopher
Sent: May 2, 2017 9:31 AM
To: Butcher, Ashley <Ashley.Butcher@dfo-mpo.gc.ca>
Cc: Burns, Adam <Adam.Burns@dfo-mpo.gc.ca>
Subject: FW: Fish Decisions

Hi Ashley,

Just received from Adam. Sylvie hasn't yet reviewed.

Chris

Chris French
A/Senior Advisor to the ADM, Ecosystems and Fisheries Management
Conseiller principal intérimaire auprès du SMA, Gestion des écosystèmes et des pêches
Fisheries and Oceans Canada I Pêches et Océans Canada
christopher.french@dfo-mpo.gc.ca / Tel: 613-949-9028

From: Burns, Adam
Sent: 2017–May-02 9:31 AM
To: French, Christopher
Cc: Lapointe, Sylvie
Subject: Fish Decisions

Hi,

Here you go.

AB

Pages 2559 to / à 2562
are duplicates of
sont des duplicatas des
pages 2618 to / à 2621

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Bernard-Martel, Laurianne

De: Burns, Adam
Envoyé: 3 mai 2017 09:18
À: Wentzell, Doug; Landry, Jean; McPherson, Arran; Perry, Jacqueline; Quinn, Frank; Lemire, Maryse; Gilbert, Scott; Thomson, Andrew
Objet: RE: Fish Decisions

Catégories: CLASSER ET SUPPRIMER

Thanks Doug.

Agreed on interim TAC.

The reference to consideration of the 60/40 split is already in the IFMP and was discussed at the advisory and no one expressed any concern.

From: Wentzell, Doug
Sent: May 3, 2017 8:30 AM
To: Burns, Adam <Adam.Burns@dfo-mpo.gc.ca>; Landry, Jean <Jean.Landry@dfo-mpo.gc.ca>; McPherson, Arran <Arran.McPherson@dfo-mpo.gc.ca>; Perry, Jacqueline <Jacqueline.Perry@dfo-mpo.gc.ca>; Quinn, Frank <Frank.Quinn@dfo-mpo.gc.ca>; Lemire, Maryse <Maryse.Lemire@dfo-mpo.gc.ca>; Gilbert, Scott <Scott.Gilbert@dfo-mpo.gc.ca>; Thomson, Andrew <Andrew.Thomson@dfo-mpo.gc.ca>
Subject: RE: Fish Decisions

Thanks Adam for the opportunity to review.

The only concerns are with the reference to 'consideration of the 60/40 split in mackerel for inshore and seiners'. If it is only consideration, that is fine, if the plan is to go ahead with this approach in 17-18, we may have concerns going forward. Our understanding was that we would proceed with an interim TAC if there is pressure to fish before the TAC is set.

Many Thanks,
Doug

Doug Wentzell
Regional Director, Fisheries Management
Fisheries and Oceans Canada | Government of Canada
Doug.Wentzell@dfo-mpo.gc.ca | Telephone: 902-426-9962 | Facsimile: 902-426-7967

Directeur régional, Gestion des pêches
Pêches et Océans Canada | Gouvernement du Canada
Doug.Wentzell@dfo-mpo.gc.ca | Téléphone: 902-426-9962 | Télécopieur: 902-426-7967

From: Burns, Adam
Sent: Tuesday, May 2, 2017 10:37 AM
To: Landry, Jean <Jean.Landry@dfo-mpo.gc.ca>; McPherson, Arran <Arran.McPherson@dfo-mpo.gc.ca>; Perry, Jacqueline <Jacqueline.Perry@dfo-mpo.gc.ca>; Wentzell, Doug <Doug.Wentzell@dfo-mpo.gc.ca>; Quinn, Frank <Frank.Quinn@dfo-mpo.gc.ca>; Lemire, Maryse <Maryse.Lemire@dfo-mpo.gc.ca>; Gilbert, Scott <Scott.Gilbert@dfo-mpo.gc.ca>; Thomson, Andrew <Andrew.Thomson@dfo-mpo.gc.ca>

Document Released Under the Access to Information Act / Document divulgué en vertu de la Loi sur l'accès à l'information.

Subject: FW: Fish Decisions
Importance: High

Hi,

See attached a short summary of key upcoming minister fishery decisions through the end of Parliament. If you have any "show-stopper" comments, please send them to me ASAP.

Adam

From: French, Christopher
Sent: May 2, 2017 9:31 AM
To: Butcher, Ashley <Ashley.Butcher@dfo-mpo.gc.ca>
Cc: Burns, Adam <Adam.Burns@dfo-mpo.gc.ca>
Subject: FW: Fish Decisions

Hi Ashley,

Just received from Adam. Sylvie hasn't yet reviewed.

Chris

Chris French
A/Senior Advisor to the ADM, Ecosystems and Fisheries Management
Conseiller principal intérimaire auprès du SMA, Gestion des écosystèmes et des pêches
Fisheries and Oceans Canada | Pêches et Océans Canada
christopher.french@dfo-mpo.gc.ca / Tel: 613-949-9028

From: Burns, Adam
Sent: 2017–May-02 9:31 AM
To: French, Christopher
Cc: Lapointe, Sylvie
Subject: Fish Decisions

Hi,

Here you go.

AB

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s.23

Cawthray, Jenness

From: Lavoie, Pierre
Sent: May-03-17 2:12 PM
To: Cawthray, Jenness
Cc: Lester, Brian
Subject: [redacted]

[redacted]

Pages 2566 to / à 2567

are withheld pursuant to section

sont retenues en vertu de l'article

23

of the Access to Information Act

de la Loi sur l'accès à l'information

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s.21(1)(b)
s.23

Dunne, Erin

From: Dunne, Erin
Sent: May-03-17 8:14 AM
To: Rumbolt, Annette
Subject: [redacted]
Attachments:

Importance: High

From: Cawthray, Jenness
Sent: April-24-17 10:29 AM
To: Rivierre, Antoine; Mallet, Pierre; Gaudet, Mario; Thomas, Tashina; Waters, Christa; Marentette, Julie; Doniol-Valcroze, Thomas; Krohn, Martha; Dunne, Erin; Lavoie, Pierre; Castonguay, Martin
Cc: Lester, Brian
Subject: [redacted]
Importance: High

Hello All,

[redacted]

Much appreciated!
Thanks!

Jenness Cawthray
Senior Fisheries and Aquaculture Management Officer |
Agent principal, Gestion des pêches et de l'aquaculture
Fisheries and Oceans | Pêches et océans
200 rue Kent Street - 13S013 Ottawa, ON, K1A 0E6
Jenness.Cawthray@dfo-mpo.gc.ca
Telephone | Téléphone (613) 998-1524
Facsimile | Télécopieur (613) 990-7051
Government of Canada | Gouvernement du Canada

Pages 2569 to / à 2576

are duplicates of

sont des duplicatas des

pages 2280 to / à 2287

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Dunne, Erin

From: Dunne, Erin
Sent: May-03-17 9:36 AM
To: Rumbolt, Annette
Subject: Re: Mackerel Scenario note key msgs for review

Correct

Sent from my BlackBerry 10 smartphone on the Bell network.

From: Rumbolt, Annette
Sent: Wednesday, May 3, 2017 8:25 AM
To: Dunne, Erin
Subject: Mackerel Scenario note key msgs for review

- The current spawning stock biomass was estimated at 48,000t for 2017, lower than the Limit Reference Point of 103,000t, placing Atlantic Mackerel in the Critical Zone of the Precautionary Approach framework.
- It was estimated that unreported/undeclared catches (recreational, bait, discard mortality and a portion of the American landings) averaged approximately 6,000t in recent years, in addition to commercial landings. This means that with a commercial TAC of 8,000t, total landings, including the undeclared estimate, were approximately 14,000t in 2016.
- According to the assessment, Atlantic Mackerel spawning stock biomass has increased slightly since reaching a historical low in 2012. DFO Science has recommended that, because the stock remains in the critical zone, total catches (declared and unreported) should be low enough to facilitate stock recovery.
- Significant catches by the Newfoundland inshore fleet, with the majority in 3K, in early October 2016, lead to a closure the fishery. It is important to note that the appearance of mackerel in 3K is not typical.
- There is no consensus on a TAC recommendation for 2017 and 2018.

Annette Rumbolt
Resource Manager/ Gestionnaire des resources
Fisheries & Oceans Canada / Peches et Oceans
Newfoundland & Labrador Region/ Newfoundland et Labrador Region
(709)772-4911 | fax/telecopieur: (709)772-3628

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s.21(1)(b)

Dunn, Patricia

From: Wentzell, Doug
Sent: May-03-17 10:53 AM
To: Burns, Adam
Subject: RE: Fish Decisions

K – all good.

Doug

Doug Wentzell
Regional Director, Fisheries Management
Fisheries and Oceans Canada | Government of Canada
Doug.Wentzell@dfo-mpo.gc.ca | Telephone: 902-426-9962 | Facsimile: 902-426-7967

Directeur régional, Gestion des pêches
Pêches et Océans Canada | Gouvernement du Canada
Doug.Wentzell@dfo-mpo.gc.ca | Téléphone: 902-426-9962 | Télécopieur: 902-426-7967

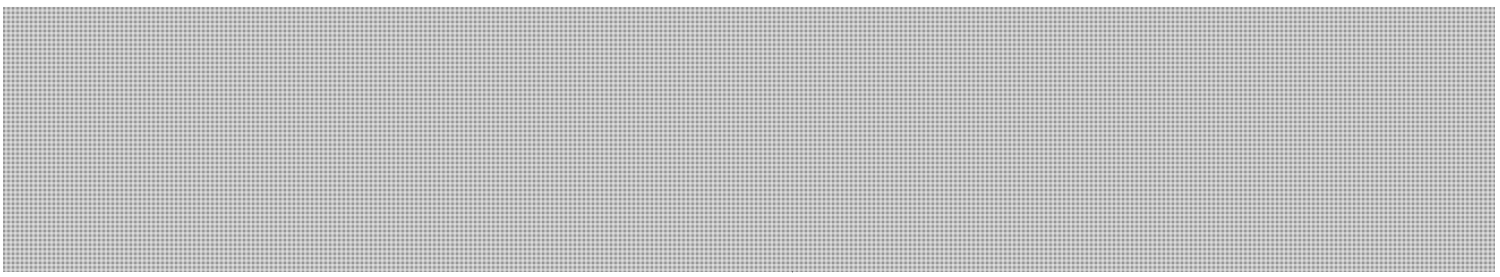
From: Burns, Adam
Sent: Wednesday, May 3, 2017 10:19 AM
To: Wentzell, Doug <Doug.Wentzell@dfo-mpo.gc.ca>
Subject: RE: Fish Decisions

Thanks Doug. The briefing was yesterday, so too late to change this document, but it was not official advice, and the memo will be advancing later this week, with a plan for an ADM/RDG call to discuss.

AB

From: Wentzell, Doug
Sent: May 3, 2017 8:44 AM
To: Burns, Adam <Adam.Burns@dfo-mpo.gc.ca>
Subject: RE: Fish Decisions

One other comment Adam and I'll stop bugging you...



Doug

Doug Wentzell
Regional Director, Fisheries Management

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s.21(1)(b)

Fisheries and Oceans Canada | Government of Canada
Doug.Wentzell@dfo-mpo.gc.ca | Telephone: 902-426-9962 | Facsimile: 902-426-7967

Directeur régional, Gestion des pêches
Pêches et Océans Canada | Gouvernement du Canada
Doug.Wentzell@dfo-mpo.gc.ca | Téléphone: 902-426-9962 | Télécopieur: 902-426-7967

From: Wentzell, Doug
Sent: Wednesday, May 3, 2017 9:30 AM
To: Burns, Adam <Adam.Burns@dfo-mpo.gc.ca>; Landry, Jean <Jean.Landry@dfo-mpo.gc.ca>; McPherson, Arran <Arran.McPherson@dfo-mpo.gc.ca>; Perry, Jacqueline <Jacqueline.Perry@dfo-mpo.gc.ca>; Quinn, Frank <Frank.Quinn@dfo-mpo.gc.ca>; Lemire, Maryse <Maryse.Lemire@dfo-mpo.gc.ca>; Gilbert, Scott <Scott.Gilbert@dfo-mpo.gc.ca>; Thomson, Andrew <Andrew.Thomson@dfo-mpo.gc.ca>
Subject: RE: Fish Decisions

Thanks Adam for the opportunity to review.

[redacted]

Many Thanks,
Doug

Doug Wentzell
Regional Director, Fisheries Management
Fisheries and Oceans Canada | Government of Canada
Doug.Wentzell@dfo-mpo.gc.ca | Telephone: 902-426-9962 | Facsimile: 902-426-7967

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Pêches et Océans Canada | Gouvernement du Canada
Doug.Wentzell@dfo-mpo.gc.ca | Téléphone: 902-426-9962 | Télécopieur: 902-426-7967

From: Burns, Adam
Sent: Tuesday, May 2, 2017 10:37 AM
To: Landry, Jean <Jean.Landry@dfo-mpo.gc.ca>; McPherson, Arran <Arran.McPherson@dfo-mpo.gc.ca>; Perry, Jacqueline <Jacqueline.Perry@dfo-mpo.gc.ca>; Wentzell, Doug <Doug.Wentzell@dfo-mpo.gc.ca>; Quinn, Frank <Frank.Quinn@dfo-mpo.gc.ca>; Lemire, Maryse <Maryse.Lemire@dfo-mpo.gc.ca>; Gilbert, Scott <Scott.Gilbert@dfo-mpo.gc.ca>; Thomson, Andrew <Andrew.Thomson@dfo-mpo.gc.ca>
Subject: FW: Fish Decisions
Importance: High

Hi,

See attached a short summary of key upcoming minister fishery decisions through the end of Parliament. If you have any "show-stopper" comments, please send them to me ASAP.

Adam

From: French, Christopher
Sent: May 2, 2017 9:31 AM

Document Released Under the Access to Information Act / Document divulgué en vertu de la Loi sur l'accès à l'information.

To: Butcher, Ashley <Ashley.Butcher@dfo-mpo.gc.ca>
Cc: Burns, Adam <Adam.Burns@dfo-mpo.gc.ca>
Subject: FW: Fish Decisions

Hi Ashley,

Just received from Adam. Sylvie hasn't yet reviewed.

Chris

Chris French
A/Senior Advisor to the ADM, Ecosystems and Fisheries Management
Conseiller principal intérimaire auprès du SMA, Gestion des écosystèmes et des pêches
Fisheries and Oceans Canada I Pêches et Océans Canada
christopher.french@dfo-mpo.gc.ca / Tel: 613-949-9028

From: Burns, Adam
Sent: 2017–May-02 9:31 AM
To: French, Christopher
Cc: Lapointe, Sylvie
Subject: Fish Decisions

Hi,

Here you go.

AB

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s.21(1)(b)

Dunn, Patricia

From: Wentzell, Doug
Sent: May-03-17 9:41 AM
To: Docherty, Verna; Berthier, Jacinta
Subject: RE: Fish Decisions

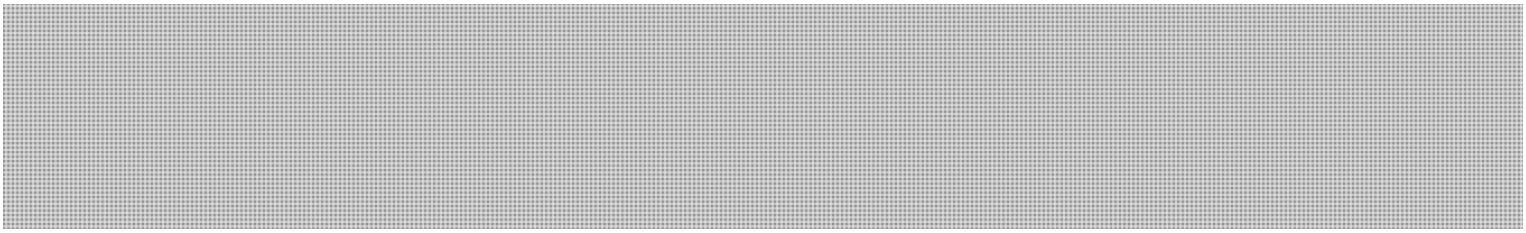
Thanks a million Verna.

Doug

Doug Wentzell
Regional Director, Fisheries Management
Fisheries and Oceans Canada | Government of Canada
Doug.Wentzell@dfo-mpo.gc.ca | Telephone: 902-426-9962 | Facsimile: 902-426-7967

Directeur régional, Gestion des pêches
Pêches et Océans Canada | Gouvernement du Canada
Doug.Wentzell@dfo-mpo.gc.ca | Téléphone: 902-426-9962 | Télécopieur: 902-426-7967

From: Docherty, Verna
Sent: Wednesday, May 3, 2017 9:41 AM
To: Wentzell, Doug <Doug.Wentzell@dfo-mpo.gc.ca>; Berthier, Jacinta <Jacinta.Berthier@dfo-mpo.gc.ca>
Subject: RE: Fish Decisions



V

From: Wentzell, Doug
Sent: 2017–May-03 9:29 AM
To: Berthier, Jacinta; Docherty, Verna
Subject: RE: Fish Decisions

OK – Thanks Jacinta and we can discuss the Mackerel note when you're back.

Doug

Doug Wentzell
Regional Director, Fisheries Management
Fisheries and Oceans Canada | Government of Canada
Doug.Wentzell@dfo-mpo.gc.ca | Telephone: 902-426-9962 | Facsimile: 902-426-7967

Directeur régional, Gestion des pêches
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s.21(1)(b) s.16(2)

From: Berthier, Jacinta
Sent: Wednesday, May 3, 2017 9:19 AM
To: Wentzell, Doug <Doug.Wentzell@dfo-mpo.gc.ca>; Docherty, Verna <Verna.Docherty@dfo-mpo.gc.ca>
Subject: RE: Fish Decisions

[redacted]

I have Christa's mackerel note with me...it was 6 pages and very dense with information so I wanted to review well before passing it along to you.

We can discuss that note and the national decision via email or when I return on Thursday.

Jacinta Berthier

Director, Resource and Aboriginal Fisheries Management
Fisheries and Oceans Canada | Government of Canada
Jacinta.Berthier@dfo-mpo.gc.ca |Tel: 902 426-7681 | Cel: [redacted]

Directrice Gestion des ressources et pêches autochtones
Pêches et Océans Canada | Gouvernement du Canada
Jacinta.Berthier@dfo-mpo.gc.ca | Tél. : 902 426-7681 | Tél. cell. : [redacted]

If you have received this communication by mistake, please notify the sender immediately and delete the communication without printing, copying or forwarding it. Thank you.

Si vous avez reçu cette communication par erreur, veuillez en aviser l'expéditeur immédiatement et la supprimer sans l'imprimer, la copier, ou la faire suivre. Merci.

From: Wentzell, Doug
Sent: Wednesday, May 3, 2017 8:10 AM
To: Berthier, Jacinta <Jacinta.Berthier@dfo-mpo.gc.ca>; Docherty, Verna <Verna.Docherty@dfo-mpo.gc.ca>
Subject: FW: Fish Decisions
Importance: High

Hi folks,

Anything in this that causes concerns?

Thanks,
Doug

Doug Wentzell
Regional Director, Fisheries Management
Fisheries and Oceans Canada | Government of Canada
Doug.Wentzell@dfo-mpo.gc.ca | Telephone: 902-426-9962 | Facsimile: 902-426-7967

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Sent: Tuesday, May 2, 2017 10:37 AM
To: Landry, Jean <Jean.Landry@dfo-mpo.gc.ca>; McPherson, Arran <Arran.McPherson@dfo-mpo.gc.ca>; Perry, Jacqueline <Jacqueline.Perry@dfo-mpo.gc.ca>; Wentzell, Doug <Doug.Wentzell@dfo-mpo.gc.ca>; Quinn, Frank <Frank.Quinn@dfo-mpo.gc.ca>; Lemire, Maryse <Maryse.Lemire@dfo-mpo.gc.ca>; Gilbert, Scott <Scott.Gilbert@dfo-mpo.gc.ca>; Thomson, Andrew <Andrew.Thomson@dfo-mpo.gc.ca>
Subject: FW: Fish Decisions
Importance: High

Hi,

See attached a short summary of key upcoming minister fishery decisions through the end of Parliament. If you have any "show-stopper" comments, please send them to me ASAP.

Adam

From: French, Christopher
Sent: May 2, 2017 9:31 AM
To: Butcher, Ashley <Ashley.Butcher@dfo-mpo.gc.ca>
Cc: Burns, Adam <Adam.Burns@dfo-mpo.gc.ca>
Subject: FW: Fish Decisions

Hi Ashley,

Just received from Adam. Sylvie hasn't yet reviewed.

Chris

Chris French
A/Senior Advisor to the ADM, Ecosystems and Fisheries Management
Conseiller principal intérimaire auprès du SMA, Gestion des écosystèmes et des pêches
Fisheries and Oceans Canada I Pêches et Océans Canada
christopher.french@dfo-mpo.gc.ca / Tel: 613-949-9028

From: Burns, Adam
Sent: 2017–May-02 9:31 AM
To: French, Christopher
Cc: Lapointe, Sylvie
Subject: Fish Decisions

Hi,

Here you go.

AB

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s.19(1)

Waters, Christa

From: Waters, Christa
Sent: May-03-17 9:13 AM
To: [redacted]
Subject: RE: Mackerel quota decision

Hello [redacted],
Unfortunately there has been no Ministerial decision yet. I will let you know when I hear something.
Christa

From: [redacted]
Sent: May 2, 2017 2:20 PM
To: Waters, Christa
Subject: Mackerel quota decision

Hi Christa,

I was wondering when we might expect the mackerel quota for 2017 to be announced? When I met with Brian last month he though maybe May 1st.

Thanks,

[redacted]

[redacted]

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s.21(1)(b)

Krohn, Martha

From: de Lafontaine, Yves
Sent: May-04-17 7:09 PM
To: Landry, Jean; Vézina, Alain
Cc: Chin, Melanie; White, Andrea; Northcott, Jennifer; Krohn, Martha
Subject: Re: Mino briefing on mackerel

Categories: Red Category

Jean,

[redacted]

Envoyé de mon smartphone BlackBerry 10 sur le réseau Bell.

De: Landry, Jean
Envoyé: jeudi 4 mai 2017 17:51
À: Vézina, Alain; de Lafontaine, Yves
Cc: Chin, Melanie; White, Andrea; Northcott, Jennifer; Krohn, Martha
Objet: Fw: Mino briefing on mackerel

Alain: on va aussi devoir produire un court texte sur les progres realises avec l,avaluation sur le maquereau. J.anticipe un breffage avec le ministre sur le maqureau pour le 15 ou 16 mai (TBC).

Yves: un breffage technique pour les media a été demande étant donné la sensibilite liee a cet enjeu. Details a venir mais on devrait anticiper un breffage en français et un en anglais.

Jean

Sent from my BlackBerry 10 smartphone on the Rogers network.

From: Burns, Adam <Adam.Burns@dfo-mpo.gc.ca>
Sent: Thursday, May 4, 2017 5:11 PM
To: French, Christopher
Cc: Lapointe, Sylvie; Landry, Jean
Subject: Mino briefing on mackerel

Hi,

We had a mino briefing on mackerel science today where Jean Landry, Martha Krohn and I reviewed the improvements which have occurred in mackerel science over the last year as well as management improvements related to monitoring and reporting which are being implemented for the coming season.

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It went well, the only outcome being a request from mino (Sheldon) that the dept consider a joint technical briefing on science and management when the decision comes out -- perhaps one in English and one in French.

AB
Sent from my BlackBerry 10 smartphone on the Rogers network.

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s.19(1)

Krohn, Martha

From: Landry, Jean
Sent: May-04-17 5:42 PM
To: Burns, Adam
Cc: Krohn, Martha; Lapointe, Sylvie
Subject: Re: Mino briefing on mackerel

Categories: Red Category

Thanks for this summary Adam. About the additional bullets requested by Sheldon, do you see this info as part of the decision memo package or something separated? We could provide a couple of bullets to your team?

Jean

Sent from my BlackBerry 10 smartphone on the Rogers network.

From: Burns, Adam
Sent: Thursday, May 4, 2017 5:11 PM
To: French, Christopher
Cc: Lapointe, Sylvie; Landry, Jean
Subject: Mino briefing on mackerel

Hi,

We had a mino briefing on mackerel science today where Jean Landry, Martha Krohn and I reviewed the improvements which have occurred in mackerel science over the last year as well as management improvements related to monitoring and reporting which are being implemented for the coming season.

It went well, the only outcome being a request from mino (Sheldon) that the dept consider a joint technical briefing on science and management when the decision comes out -- perhaps one in English and one in French.

AB
Sent from my BlackBerry 10 smartphone on the Rogers network.

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s.19(1)
s.21(1)(b)

Krohn, Martha

From: Krohn, Martha
Sent: May-04-17 1:02 PM
To: Chin, Melanie; Landry, Jean
Cc: White, Andrea; Hodgins, Jill
Subject: RE: MINO Briefing: Science - Mackerel today May 4 3pm

Categories: Red Category

Hi mel,

Julie sat in on a call with EFM this am:

With the addition of hails/dockside monitoring, the removal of purchase-slip based monitoring, and a potential freeze on the issuance of any new licences/new gear on old licences, the expectation is that a good portion of the undeclared catch will become declared and the total catch will still be approximately 16,000 t. All references to 3K will be removed from the memo.

There is a meeting of the RDGs/ADMs tomorrow morning on Mackerel. Brian Lester will be updating us on the results of that discussion, updating the memo and also arranging a call either Friday afternoon or Monday morning.

Trevor will want to be aware of this new context.
Thanks!
Martha

From: Chin, Melanie
Sent: May-04-17 12:59 PM
To: Landry, Jean
Cc: White, Andrea; Krohn, Martha; Hodgins, Jill
Subject: RE: MINO Briefing: Science - Mackerel today May 4 3pm

MERCI.

From: Landry, Jean
Sent: 2017–May-04 12:59 PM
To: Chin, Melanie
Cc: White, Andrea; Krohn, Martha
Subject: RE: MINO Briefing: Science - Mackerel today May 4 3pm

On standby, as usual.

I think Martha is good until 4:15.

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Jean Landry

Director , Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Jean.Landry@dfo-mpo.gc.ca / Tel: 613-993-0029

Directeur, Sciences halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Jean.Landry@dfo-mpo.gc.ca / Tél. : 613-993-0029

Government of Canada Gouvernement du Canada

Canada

De : Chin, Melanie
Envoyé : 4 mai 2017 12:57
À : Vézina, Alain <Alain.Vezina@dfo-mpo.gc.ca>; Landry, Jean <Jean.Landry@dfo-mpo.gc.ca>
Cc : Krohn, Martha <Martha.Krohn@dfo-mpo.gc.ca>; White, Andrea <Andrea.White@dfo-mpo.gc.ca>; Hodgins, Jill <Jill.Hodgins@dfo-mpo.gc.ca>; Murray, Marie-Michèle <Marie-Michele.Murray@dfo-mpo.gc.ca>; Boudreau, Carol-Ann <Carol-Ann.Boudreau@dfo-mpo.gc.ca>; Ouimet, Benoit <Benoit.Ouimet@dfo-mpo.gc.ca>
Objet : MINO Briefing: Science - Mackerel today May 4 3pm

Alain, Jean, Martha,

Please be on standby to attend this Mackerel MINO briefing 3:00-3:30pm today. At that time Trevor ***may*** need to present his OPP item at the Nat'l Union Management (NUMCC) meeting.

Alain, as you are at the Culture Committee meeting, if Jean can be on standby to attend the MINO briefing at 3pm then no problem.

The documents we have for this MINO briefing are in the attached email.

Thanks.

s.16(2)(c)
s.21(1)(b)
s.23

will put in memo until new rebuild plan

Mackerel Memo

Date May 4/17

1-877-413 4788

[redacted]

Brian - any thoughts on temp.
- freeze on issuing new licences or add new gear on old licences?

QB - ok
Gulf - ?
Christa - not sure? no new effort added?
- until IEMP + rebuild plan
- may be too late this year

Brian (Adam) - currently comfortable w [redacted]
→ ~16,000 Total estim
→ 1-2 million lbs → freezer → no ships
→ remove refs to 3K in memo
↳ more pressure to move forward now

hail + dockside ↓ purchase slips → ↓ under catch. to 4,000 mt

RDG (Sylvie) - to be briefed tmrw morning
+ ADM - Brian will update us and if needed recirculate memo / arrange another call

Brian

[redacted]

Brian
↳ calls
late spring/
summer/
fall for
IEMP/Rebuild
↳ 2019
AMAC
GOAL

[redacted]

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Marentette, Julie

From: Doniol-Valcroze, Thomas
Sent: May-04-17 10:36 AM
To: Marentette, Julie
Subject: RE: Mackerel SAR - status?

Hi Julie,

The SAR has just been sent for regional approval.

Cheers,
Thomas

De : Marentette, Julie
Envoyé : 4 mai 2017 10:35
À : Doniol-Valcroze, Thomas
Objet : Mackerel SAR - status?

Hi Thomas,

Could you let me know what the status of the SAR for mackerel is at the moment? Thanks!

Best regards,

Julie Marentette, Ph.D.

Science Advisor, Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Julie.Marentette@dfo-mpo.gc.ca /Tel: 613-943-2098

Conseillère scientifique, Sciences des populations halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Julie.Marentette@dfo-mpo.gc.ca /Tél: 613-943-2098

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s.21(1)(b)

Marentette, Julie

From: Landry, Jean
Sent: May-04-17 10:22 AM
To: Marentette, Julie
Subject: RE: Mackerel Memo/TAC Update

Agree with your analysis. Thanks

Jean Landry

Director , Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Jean.Landry@dfo-mpo.gc.ca / Tel: 613-993-0029

Directeur, Sciences halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Jean.Landry@dfo-mpo.gc.ca / Tél. : 613-993-0029

Government of Canada Gouvernement du Canada

Canada

De : Marentette, Julie
Envoyé : 4 mai 2017 10:21
À : Landry, Jean <Jean.Landry@dfo-mpo.gc.ca>; Krohn, Martha <Martha.Krohn@dfo-mpo.gc.ca>
Objet : RE: Mackerel Memo/TAC Update

Hi Jean,

I will ask if we can see the memo but my understanding is that it wasn't being updated until after the meeting. It will be good to make sure.

That said, everything hinges on the accuracy of the 6,000 t estimated undeclared catch, which is itself an average, not a hard number (any given year could be more, or less than that, and the real-world effects of all the changes EFM is making for monitoring and reporting are only going to be known for sure after the next fishing season wraps up).

Best regards,

Julie Marentette, Ph.D.

Science Advisor, Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Julie.Marentette@dfo-mpo.gc.ca /Tel: 613-943-2098

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Julie.Marentette@dfo-mpo.gc.ca /Tél: 613-943-2098

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s.21(1)(b)

From: Landry, Jean
Sent: May-04-17 10:12 AM
To: Marentette, Julie; Krohn, Martha
Subject: RE: Mackerel Memo/TAC Update

Thanks Julie,

Two questions:

1-Any concern with that new position?
2-Can we get the most recent version of the memo?

Martha: you should alert ADMO and also ask if any material (deck, memo) will be tabled at the MinO briefing. If so, we should ask to see the material in advance, to the extent possible.

Jean

Jean Landry

Director , Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Jean.Landry@dfo-mpo.gc.ca / Tel: 613-993-0029

Directeur, Sciences halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Jean.Landry@dfo-mpo.gc.ca / Tél. : 613-993-0029

Government of Canada Gouvernement du Canada

Canada

De : Marentette, Julie
Envoyé : 4 mai 2017 09:41
À : Landry, Jean <Jean.Landry@dfo-mpo.gc.ca>; Krohn, Martha <Martha.Krohn@dfo-mpo.gc.ca>
Objet : Mackerel Memo/TAC Update

Good morning,

I sat in on a call hosted by EFM this morning.

[redacted] With the addition of hails/dockside monitoring, the removal of purchase-slip based monitoring, and a potential freeze on the issuance of any new licences/new gear on old licences, the expectation is that a good portion of the undeclared catch will become declared and the total catch will still be approximately 16,000 t. All references to 3K will be removed from the memo.

There is a meeting of the RDGs/ADMs tomorrow morning on Mackerel. Brian Lester will be updating us on the results of that discussion, updating the memo and also arranging a call either Friday afternoon or Monday morning.

Best regards,

Julie Marentette, Ph.D.

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Science Advisor, Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Julie.Marentette@dfo-mpo.gc.ca /Tel: 613-943-2098

Conseillère scientifique, Sciences des populations halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Julie.Marentette@dfo-mpo.gc.ca /Tél: 613-943-2098

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Trudeau, Miriam

Subject:	MINO Briefing: Science - Mackerel
Location:	Minister's Boardroom
Start:	Thu 5/4/2017 3:00 PM
End:	Thu 5/4/2017 3:30 PM
Recurrence:	(none)
Meeting Status:	Accepted
Organizer:	Departmental Assistant / Adjoint ministériel (DFO/MPO)
Required Attendees:	Gillis, Sheldon; Swerdfager, Trevor; Lapointe, Sylvie; Trudeau, Miriam; Burns, Adam
Optional Attendees:	Hodgins, Jill; Chin, Melanie; French, Christopher; Richter, Julie; Butcher, Ashley; Hopkins, Lillian; Lemay, Jason; Malko, Carol; Patrick, Lindsey; Wallace, Dorothy; Amlani, Ashraf; Gareau, Laura; Hughes, Vincent; Lacombe, Barry; Lavigne, Kevin; McIntyre, Alexis; MacNeil, Vince; Mathé, Diane; Mullan-Boudreau, Caitlin; O'Halloran, Mark; Yorke, Samuel

[redacted]

Mackerel.

- ~~NB, PS~~, Gulf / Mar / DC / NC.
- Fished by everyone

→ Background on science in the last year. - Since 2016. in science

→ DD model based on catches from the fisheries
→ often idea of the biomass was very low
→ we have a better idea of the population - solid info.

→ acknowledgement of what happened last year and what we done improved.
- science
- real time tracking / reporting.

- Origin of 3K biomass
why does it appear from time to time.

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- Advisory Committee
  - they know the science
  - they know the range (Science advice) Commercial

- Intercept survey - pulling the industry
  - put results in the model and provide an estimate of unreported catch. (based on the reported catches)

- Bait fishery
  - need a licence
- no fewer around see fish
  - no licence.
  - no reporting.
- 1st species to move to Commercial see fish

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- dockside monitoring ⇐ 3rd party paid by industry.

- memo - no briefing necessary.
- original check w/ industry.
  ↳ don't believe the science
- Settlement w/ (?) = litigation.
- cmts - talk briefing ?
  ↳ management/science
  ↳ hot spot - NL, OC.
- call RDDs - memo to be w/

- min leave - on May 17. (italic)
  - May 05/16.

- issue on ~~Revis~~. packaged.
- ? - Briefing w/ officials next week.

002598

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s.21(1)(b)

Cormier, Mélanie

De: Gros-Louis, Denis
Envoyé: 4 mai 2017 14:56
À: Lemire, Maryse
Cc: Gagné, Danie
Objet: TR: Fish Decisions

Importance: Haute

Maryse,

[redacted]

Denis

De : Boudreau, Suzie
Envoyé : 4 mai 2017 14:14
À : Gros-Louis, Denis <Denis.Gros-Louis@dfo-mpo.gc.ca>
Cc : Rivierre, Antoine <Antoine.Rivierre@dfo-mpo.gc.ca>
Objet : TR: Fish Decisions
Importance : Haute

Voir les commentaires d'Antoine dans le document.

De : Gagné, Danie **De la part de** Lemire, Maryse
Envoyé : 2 mai 2017 15:49
À : Gros-Louis, Denis
Cc : Wilkins, Kevin; Boudreau, Suzie
Objet : TR: Fish Decisions
Importance : Haute

Bonjour,

Avez-vous des commentaires pouvant être fournis rapidement? Une réponse même nil serait appréciée.

Merci,

Danie Gagné pour :
Maryse Lemire
Directrice régionale, Gestion des pêches
Pêches et Océans Canada – Région du Québec / Gouvernement du Canada
Maryse.Lemire@dfo-mpo.gc.ca / Tél. : 418-648-5783 / Téléc. : 418-648-7981

Regional Director, Fisheries Management
Fisheries and Oceans Canada – Quebec Region / Government of Canada
104 Dalhousie Street, Quebec (Quebec) G1K 7Y7
Maryse.Lemire@dfo-mpo.gc.ca / Tél. : (418) 648-5783 / Fax : (418) 648-7981

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De : Burns, Adam
Envoyé : 2 mai 2017 09:37
À : Landry, Jean; McPherson, Arran; Perry, Jacqueline; Wentzell, Doug; Quinn, Frank; Lemire, Maryse; Gilbert, Scott; Thomson, Andrew
Objet : FW: Fish Decisions
Importance : Haute

Hi,

See attached a short summary of key upcoming minister fishery decisions through the end of Parliament. If you have any "show-stopper" comments, please send them to me ASAP.

Adam

From: French, Christopher
Sent: May 2, 2017 9:31 AM
To: Butcher, Ashley <Ashley.Butcher@dfo-mpo.gc.ca>
Cc: Burns, Adam <Adam.Burns@dfo-mpo.gc.ca>
Subject: FW: Fish Decisions

Hi Ashley,

Just received from Adam. Sylvie hasn't yet reviewed.

Chris

Chris French
A/Senior Advisor to the ADM, Ecosystems and Fisheries Management
Conseiller principal intérimaire auprès du SMA, Gestion des écosystèmes et des pêches
Fisheries and Oceans Canada I Pêches et Océans Canada
christopher.french@dfo-mpo.gc.ca / Tel: 613-949-9028

From: Burns, Adam
Sent: 2017–May-02 9:31 AM
To: French, Christopher
Cc: Lapointe, Sylvie
Subject: Fish Decisions

Hi,

Here you go.



MECTS-#377182...

AB

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Cormier, Mélanie

De: Boudreau, Suzie
Envoyé: 4 mai 2017 16:39
À: Rivierre, Antoine
Objet: TR: Fish Decisions

Stand-by demain PM.
Suzie

De : Burns, Adam
Envoyé : 4 mai 2017 16:36
À : Lemire, Maryse; Landry, Jean; McPherson, Arran; Perry, Jacqueline; Wentzell, Doug; Quinn, Frank; Gilbert, Scott; Thomson, Andrew
Cc : Gros-Louis, Denis; Boudreau, Suzie
Objet : RE: Fish Decisions

Merci Maryse,

Je pense qu'on a un appel avec les DGR demain après-midi.

AB

From: Lemire, Maryse
Sent: May 4, 2017 4:01 PM
To: Burns, Adam <Adam.Burns@dfo-mpo.gc.ca>; Landry, Jean <Jean.Landry@dfo-mpo.gc.ca>; McPherson, Arran <Arran.McPherson@dfo-mpo.gc.ca>; Perry, Jacqueline <Jacqueline.Perry@dfo-mpo.gc.ca>; Wentzell, Doug <Doug.Wentzell@dfo-mpo.gc.ca>; Quinn, Frank <Frank.Quinn@dfo-mpo.gc.ca>; Gilbert, Scott <Scott.Gilbert@dfo-mpo.gc.ca>; Thomson, Andrew <Andrew.Thomson@dfo-mpo.gc.ca>
Cc: Gros-Louis, Denis <Denis.Gros-Louis@dfo-mpo.gc.ca>; Boudreau, Suzie <Suzie.Boudreau@dfo-mpo.gc.ca>
Subject: RE: Fish Decisions

Bonjour Adam,

[redacted]

Maryse

Maryse Lemire

Directrice régionale de la gestion des pêches
Pêches et Océans Canada / Gouvernement du Canada
Maryse.Lemire@dfo-mpo.gc.ca / Tél.: 418-648-5783

Fisheries Management Regional Director
Fisheries and Oceans Canada / Government of Canada
Maryse.Lemire@dfo-mpo.gc.ca / Tel.: 418-648-5783

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Ma langue, une question de respect / My language, a matter of respect

De : Burns, Adam
Envoyé : 2 mai 2017 09:37
À : Landry, Jean <Jean.Landry@dfo-mpo.gc.ca>; McPherson, Arran <Arran.McPherson@dfo-mpo.gc.ca>; Perry, Jacqueline <Jacqueline.Perry@dfo-mpo.gc.ca>; Wentzell, Doug <Doug.Wentzell@dfo-mpo.gc.ca>; Quinn, Frank <Frank.Quinn@dfo-mpo.gc.ca>; Lemire, Maryse <Maryse.Lemire@dfo-mpo.gc.ca>; Gilbert, Scott <Scott.Gilbert@dfo-mpo.gc.ca>; Thomson, Andrew <Andrew.Thomson@dfo-mpo.gc.ca>
Objet : FW: Fish Decisions
Importance : Haute

Hi,

See attached a short summary of key upcoming minister fishery decisions through the end of Parliament. If you have any "show-stopper" comments, please send them to me ASAP.

Adam

From: French, Christopher
Sent: May 2, 2017 9:31 AM
To: Butcher, Ashley <Ashley.Butcher@dfo-mpo.gc.ca>
Cc: Burns, Adam <Adam.Burns@dfo-mpo.gc.ca>
Subject: FW: Fish Decisions

Hi Ashley,

Just received from Adam. Sylvie hasn't yet reviewed.

Chris

Chris French
A/Senior Advisor to the ADM, Ecosystems and Fisheries Management
Conseiller principal intérimaire auprès du SMA, Gestion des écosystèmes et des pêches
Fisheries and Oceans Canada | Pêches et Océans Canada
christopher.french@dfo-mpo.gc.ca / Tel: 613-949-9028

From: Burns, Adam
Sent: 2017–May-02 9:31 AM
To: French, Christopher
Cc: Lapointe, Sylvie
Subject: Fish Decisions

Hi,

Here you go.

AB

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s.21(1)(b)

Gagnon, Marie

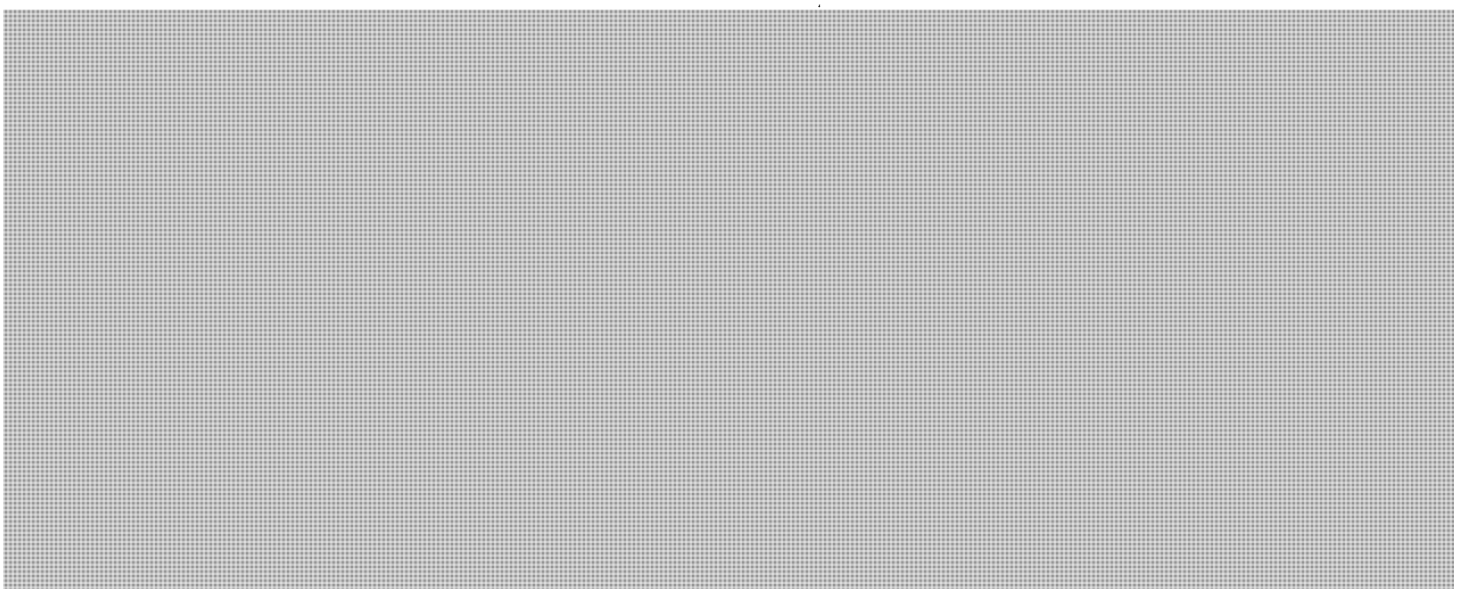
De: Lemire, Maryse
Envoyé: 4 mai 2017 16:27
À: Vincent, Patrick
Cc: Gros-Louis, Denis; Boudreau, Suzie; Rivierre, Antoine; de Lafontaine, Yves
Objet: Appel du vendredi 5 mai concernant le TAC du maquereau
Pièces jointes: TR: Mackerel Memo; TR: Maquereau - TAC prévu > 10K t; RE: Fish Decisions

Importance: Haute

Catégories: ACTION

Bonjour Patrick,

Tu as reçu une convocation pour un appel national demain après-midi concernant le TAC du maquereau.



Je joins quelques courriels pour ton information.

Antoine Rivière pourrait se joindre à toi pour l'appel si tu le désires ou te rencontrer avant l'appel pour te donner plus de détails.

Maryse

Maryse Lemire

Directrice régionale de la gestion des pêches
Pêches et Océans Canada / Gouvernement du Canada
Maryse.Lemire@dfo-mpo.gc.ca / Tél.: 418-648-5783

Fisheries Management Regional Director
Fisheries and Oceans Canada / Government of Canada
Maryse.Lemire@dfo-mpo.gc.ca / Tel.: 418-648-5783

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Ma langue, une question de respect / My language, a matter of respect

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s.21(1)(b)

s.23

Dale, Francine

From: Boudreau, Suzie
Sent: May-04-17 4:03 PM
To: Lemire, Maryse
Cc: Rivierre, Antoine
Subject: [redacted]
Attachments:

Bonjour Maryse,

[redacted]

Suzie

De : Rivierre, Antoine
Envoyé : 24 avril 2017 13:23
À : Cawthray, Jenness; Mallet, Pierre; Gaudet, Mario; Thomas, Tashina; Waters, Christa; Marentette, Julie; Doniol-Valcroze, Thomas; Krohn, Martha; Dunne, Erin; Lavoie, Pierre; Castonguay, Martin
Cc : Lester, Brian
Objet : [redacted]

Bonjour Jenness

[redacted]

Antoine

De : Cawthray, Jenness
Envoyé : 24 avril 2017 08:59
À : Rivierre, Antoine; Mallet, Pierre; Gaudet, Mario; Thomas, Tashina; Waters, Christa; Marentette, Julie; Doniol-Valcroze, Thomas; Krohn, Martha; Dunne, Erin; Lavoie, Pierre; Castonguay, Martin
Cc : Lester, Brian
Objet : [redacted]
Importance : Haute

Hello All,

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[redacted]

Much appreciated!
Thanks!

s.21(1)(b)
s.23

Jenness Cawthray
Senior Fisheries and Aquaculture Management Officer |
Agent principal, Gestion des pêches et de l'aquaculture
Fisheries and Oceans | Pêches et océans
200 rue Kent Street - 13S013 Ottawa, ON, K1A 0E6
Jenness.Cawthray@dfo-mpo.gc.ca
Telephone | Téléphone (613) 998-1524
Facsimile | Télécopieur (613) 990-7051
Government of Canada | Gouvernement du Canada

Pages 2607 to / à 2611

are withheld pursuant to sections

sont retenues en vertu des articles

21(1)(b), 23

of the Access to Information Act

de la Loi sur l'accès à l'information

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s.21(1)(b)

Dale, Francine

From: Rivierre, Antoine
Sent: May-04-17 3:08 PM
To: Lemire, Maryse
Subject: TR: Maquereau - TAC prévu > 10K t
Attachments: RE: Mackerel Memo

Importance: High

Tel que discuté. Ma recommandation est dans le courriel en pièce jointe.

Antoine

De : Boudreau, Suzie
Envoyé : May-04-17 2:13 PM
À : Gros-Louis, Denis
Cc : Rivierre, Antoine
Objet : Maquereau - TAC prévu > 10K t
Importance : Haute

Denis,

[redacted]

À surveiller et informer Maryse.

Suzie

De : Rivierre, Antoine
Envoyé : 4 mai 2017 13:29
À : Boudreau, Suzie
Cc : Gros-Louis, Denis
Objet : TR: TAC maquerel

Suzie je viens te voir à ce sujet.

Antoine

De : Waters, Christa
Envoyé : May-04-17 1:20 PM
À : Rivierre, Antoine
Objet : RE: TAC maquerel

I immediately let my director and Regional director that there would be a briefing from Ottawa to the RDG's tomorrow [redacted]. I have been really clear on the advice I have provided Regionally. [redacted]

C

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From: Rivierre, Antoine
Sent: May 4, 2017 2:16 PM
To: Waters, Christa
Subject: TAC maquerel

s.21(1)(b)

I don't know if I have to forward this information to my direction....
Your opinion ?

Antoine Rivierre

Agent régional principal,
Espèces pélagiques, mammifères marins
Gestion de la ressource et des affaires autochtones / Pêches et Océans Canada / Gouvernement du Canada
Antoine.rivierre@dfo-mpo.gc.ca / Tél. : 418.640.2636

Regional senior Advisor,
Pelagic species, Marine Mammals
Resource Management and Aboriginal Affairs / Fisheries and Oceans Canada / Government of Canada
Antoine.rivierre@dfo-mpo.gc.ca / Tél. : 418.640.2636

Government of Canada Gouvernement du Canada

Canada

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s.21(1)(b)
s.23

Dale, Francine

From: Gros-Louis, Denis
Sent: April-24-17 1:43 PM
To: Cawthray, Jenness; Mallet, Pierre
Cc: Lester, Brian; Rivierre, Antoine; Boudreau, Suzie
Subject:

Denis

De : Rivierre, Antoine
Envoyé : 24 avril 2017 13:23
À : Cawthray, Jenness <cawthrayj.Cawthray@dfo-mpo.gc.ca>; Mallet, Pierre <Pierre.Mallet@dfo-mpo.gc.ca>; Gaudet, Mario <Mario.Gaudet@dfo-mpo.gc.ca>; Thomas, Tashina <Tashina.Thomas@dfo-mpo.gc.ca>; Waters, Christa <Christa.Waters@dfo-mpo.gc.ca>; Marentette, Julie <Julie.Marentette@dfo-mpo.gc.ca>; Doniol-Valcroze, Thomas <Thomas.Doniol-Valcroze@dfo-mpo.gc.ca>; Krohn, Martha <Martha.Krohn@dfo-mpo.gc.ca>; Dunne, Erin <Erin.Dunne@dfo-mpo.gc.ca>; Lavoie, Pierre <Pierre.Lavoie@dfo-mpo.gc.ca>; Castonguay, Martin <Martin.Castonguay@dfo-mpo.gc.ca>
Cc : Lester, Brian <Brian.Lester@dfo-mpo.gc.ca>
Objet :

Bonjour Jenness

Antoine

De : Cawthray, Jenness
Envoyé : 24 avril 2017 08:59
À : Rivierre, Antoine; Mallet, Pierre; Gaudet, Mario; Thomas, Tashina; Waters, Christa; Marentette, Julie; Doniol-Valcroze, Thomas; Krohn, Martha; Dunne, Erin; Lavoie, Pierre; Castonguay, Martin
Cc : Lester, Brian
Objet :
Importance : Haute

Hello All,

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Much appreciated!
Thanks!

s.21(1)(b)
s.23

Jenness Cawthray
Senior Fisheries and Aquaculture Management Officer |
Agent principal, Gestion des pêches et de l'aquaculture
Fisheries and Oceans | Pêches et océans
200 rue Kent Street - 13S013 Ottawa, ON, K1A 0E6
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Government of Canada | Gouvernement du Canada

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s.21(1)(b)

Dale, Francine

From: Lemire, Maryse
Sent: May-04-17 4:01 PM
To: Burns, Adam; Landry, Jean; McPherson, Arran; Perry, Jacqueline; Wentzell, Doug; Quinn, Frank; Gilbert, Scott; Thomson, Andrew
Cc: Gros-Louis, Denis; Boudreau, Suzie
Subject: RE: Fish Decisions
Attachments: MECTS-#3771829-v1-Information_on_Key_Fisheries_-_until_June_23__2017.docx

Bonjour Adam,

[redacted]

Maryse

Maryse Lemire

Directrice régionale de la gestion des pêches
Pêches et Océans Canada / Gouvernement du Canada
Maryse.Lemire@dfo-mpo.gc.ca / Tél.: 418-648-5783

Fisheries Management Regional Director
Fisheries and Oceans Canada / Government of Canada
Maryse.Lemire@dfo-mpo.gc.ca / Tel.: 418-648-5783

Ma langue, une question de respect
My language, a matter of respect

De : Burns, Adam
Envoyé : 2 mai 2017 09:37
À : Landry, Jean <Jean.Landry@dfo-mpo.gc.ca>; McPherson, Arran <Arran.McPherson@dfo-mpo.gc.ca>; Perry, Jacqueline <Jacqueline.Perry@dfo-mpo.gc.ca>; Wentzell, Doug <Doug.Wentzell@dfo-mpo.gc.ca>; Quinn, Frank <Frank.Quinn@dfo-mpo.gc.ca>; Lemire, Maryse <Maryse.Lemire@dfo-mpo.gc.ca>; Gilbert, Scott <Scott.Gilbert@dfo-mpo.gc.ca>; Thomson, Andrew <Andrew.Thomson@dfo-mpo.gc.ca>
Objet : FW: Fish Decisions
Importance : Haute

Hi,

See attached a short summary of key upcoming minister fishery decisions through the end of Parliament. If you have any "show-stopper" comments, please send them to me ASAP.

Adam

Document Released Under the Access to Information Act / Document divulgué en vertu de la Loi sur l'accès à l'information.

From: French, Christopher
Sent: May 2, 2017 9:31 AM
To: Butcher, Ashley <Ashley.Butcher@dfo-mpo.gc.ca>
Cc: Burns, Adam <Adam.Burns@dfo-mpo.gc.ca>
Subject: FW: Fish Decisions

Hi Ashley,

Just received from Adam. Sylvie hasn't yet reviewed.

Chris

Chris French
A/Senior Advisor to the ADM, Ecosystems and Fisheries Management
Conseiller principal intérimaire auprès du SMA, Gestion des écosystèmes et des pêches
Fisheries and Oceans Canada | Pêches et Océans Canada
christopher.french@dfo-mpo.gc.ca / Tel: 613-949-9028

From: Burns, Adam
Sent: 2017–May-02 9:31 AM
To: French, Christopher
Cc: Lapointe, Sylvie
Subject: Fish Decisions

Hi,

Here you go.

AB

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s.21(1)(b)

Upcoming Fisheries Decisions

Northern Cod

1) **Timing on decision:**
   - **Fishing targeted to start as per the approved management plan (e.g. May/June proposed by FFAW)**
2) **Initial Advice**
   - **Recommendation for stewardship not fully fleshed out yet (options at the moment are status quo, fully approve the Newfoundland and Labrador (NL) Groundfish industry Development Council proposal (estimated 16,000 to 18,000t) or something in between).**
3) **Inshore perspective / expectation:**
   - **Newfoundland and Labrador Groundfish industry Development Council presented a 2017 Stewardship fishery management plan at the advisory meeting in early April.**
4) **Other considerations:**
   - **While the stock is showing signs of improvements, DFO stock assessment in March 2016 indicated the stock is still in the lower half of the critical zone. The April 2017 science update noted that abundance and biomass indices from the autumn DFO survey in 2016 continued an increasing trend since 2012 and the 2016 the biomass index was 7% higher than in 2015.**
   - **The House Standing Committee tabled their report on Northern Cod March 20, 2017 which calls for emphasis on the precautionary approach and long term stock rebuilding considerations in management decisions to ensure sustainability of the northern cod. A Government Response is being prepared for tabling in early June.**

Mackerel

1) Timing on decision
   - Varies by Region, Maritimes and Gulf is the first to open mid-May. The Department would like TAC by May 15, with fishery open as soon as decision is made. In 2016, the first recorded catchers were second week of May in the Maritimes. This year, there have already been numerous requests to open the fishery in the Maritimes Regions.
   - In Newfoundland, the fishery opens on various dates for fixed and mobile between August 1 and September 2; however, mackerel typically shows up late September –October.
   - Quebec opens June 1.
   - The fishery has opened in the past without a TAC announcement. If the Maritimes and Gulf opens the fishery, no foreseen negative implications to this. TAC decision should be announced prior to the start of the NL season (August 1) when a larger portion of fish could be harvested.

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2) Initial Advice

- A commercial TAC in the range of 10,000 – 12,000 t is within the scope of the science advice. Consideration to implementation of the 60/40 split between the inshore and seiners, and to the ongoing participation of the exploratory licenses (seiners) in the fishery is ongoing. Final advice is expected within the next week.

3) Inshore perspective / expectation – Expectations are that fishery should open very soon.

- There may be some negative reaction to a TAC of less than what many in the industry supported (36,000t), however this level is not within the scope of the science advice.

Seals:

1) Timing on decision
   - The harvest of grey seals has ended for the season. There are currently no further plans to harvest grey seals in the near term; however, the harvest may continue later in the fall.
   - The harp seals fishery is nearly complete and approximately 76,913 seals were harvested as of April 30th. It is expected that total landings will be approximately 100,000 this year.
   - Given the harvest is nearly complete, a deferral of setting a TAC for this fishery is possible at this time.

2) Initial Advice:
   - New Science advice supporting a harvest of 34,500 grey seals. No new advice for harp or hooded therefore a roll over is recommended pending new advice.

3) Inshore perspective / expectation
   - [redacted] they are of the view that it should be managed as an ecosystem predator to cod and other groundfish and therefore TACs should be maintained at minimum at the current level of 60,000.

Gulf Atlantic Halibut

1) **Timing on decision:**
   - **Fishery opens May 15th. Fleets will start fishing May 15 (subject to ice)**
2) **Initial Advice**
   - **Recommended Total Allowable Catch (TAC) is 1245t (208t increase which includes a 50t Use of Fish allocation)**
3) **Inshore perspective / expectation:**

[redacted]

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Gulf Greenland halibut (4RST):

1) Timing on decision: Fishery opens May 15.

2) Initial Advice: Rollover of TAC (4,500 t)

3) Inshore perspective / expectation: Most harvesters support TAC rollover

Unit 1 Redfish ((3Pn, 4RST, 4Vn January to May):

1) Timing on decision: Fishery opens May 15.

2) Initial Advice: Rollover of the index fishery at 2,000 t.

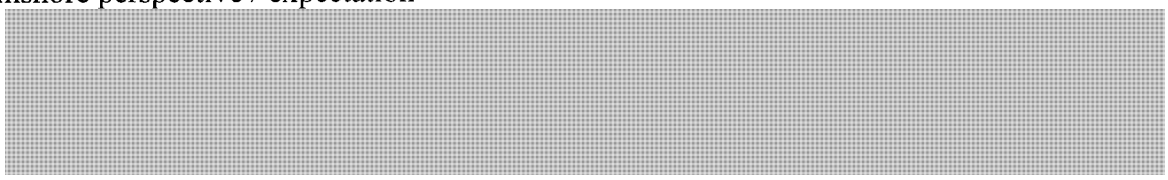
3) Inshore perspective / expectation: Most harvesters support TAC rollover

Pacific Salmon:

1) Timing on decision: Advice is expected by mid-to-late May

2) Initial Advice: In general, returns are expected to be at a low-to-moderate level which will likely create challenges in providing meaningful commercial opportunities in many rivers while addressing Indigenous access and reconciliation.

3) Inshore perspective / expectation



Greenland halibut 0B fixed gear competitive fishery conversion to Individual Transferable Quotas (ITQs)

1) Timing on decision:
   - The competitive fishery traditionally opens first week of June (subject to ice). This issue has been ongoing for many years and could be deferred until 2018.
2) Initial Advice
   - Preliminary recommended is to move the fishery to ITQs for 2017 and allocate 180 t (20%) for adjacent Nunauvt enterprises with the remainder split based on catch history.
3) Inshore perspective / expectation:
   - There are 3 different fleets (inshore, mid-shore and fixed gear >100) with access to the 900t fixed gear competitive fishery which includes indigenous enterprises from both Newfoundland (Labrador Innu) and Nunavut (Inuit).

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- **There are 5 inshore Newfoundland harvesters represented by the FFAW. The majority (3 of 5) of the inshore NL harvesters do not want to move to ITQs given their newly acquired access and limited catch history.**
- **Both the Innu and Nunavut Inuit enterprises support moving to ITQs but views on sharing (adjacency vs catch history) are divergent (Innu suggest 200t vs Nunavut suggests 360t for adjacency).**
- **Others support only a 10% amount for adjacency or to maintain the competitive regime.**

Establishment of a Total Allowable Take for a 3 year period for eastern Hudson Bay Beluga in the Nunavik Marine Region

1) Timing on decision:
   - **A decision letter from the Nunavik Marine Region and Eeyou Marine Region Wildlife Board's was received March 17, 2017. As per the terms of the Nunavut Land and the Eeyou Marine Region Claims Agreements, the Minister has 60 days to either accept or reject the decision. The Minister needs to make a decision by May 16, 2017. The subsistence hunt typically starts in June depending upon ice conditions.**

2) Wildlife Board perspective / expectation:
   - **The Board's decisions are similar to the previous 3 year management plan that expired on January 1, 2017.**
   - **The Board's and Makivik Corporation would be very pleased if the new 3 year plan were to be approved.**

3) Other considerations:
   - The Department will be working with/consulting with Inuit, Makivik Corporation and the respective Board's in the coming years in hopes of implementing the precautionary approach in this fishery.

Proposed modifications to existing narwhal total allowable harvest levels in the Nunavut Settlement Area

1) Timing on decision:
   - Two decision letters from the Nunavut Wildlife Management Board were received March 20 and March 24, 2017. As per the terms of the Nunavut Agreement, the Minister has 60 days to either accept or reject the decisions. The Minister needs to make a decision by May 19 and 23, 2017 respectively. The subsistence hunt typically starts in June/July depending upon ice conditions.

2) Wildlife Board perspective / expectation:
   - **The Board, Nunavut Tunngavik Incorporated and Inuit would be very happy if the Board's decisions were accepted**

3) Other considerations:
   - The department is in the process of requesting an extension to the decision (a minimum of 30 days) from the Nunavut Wildlife Management Board

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Thomas, Tashina

From: Mallet, Pierre
Sent: May-04-17 10:35 AM
To: MacIsaac, Shane; Mills, Chris D
Cc: MacRae, Kent; Walker, Paul D; Sheidow, Don; Dionne, Michelle R; Thomas, Tashina; Gaudet, Mario
Subject: RE: Mackerel

Good morning Shane,

The mackerel fishery will open on May 15, variation order being prepared now and licences conditions are being put in NOLS now. New for 2017, 100% hail in with catch estimate and 25% DMP. A notice to harvesters will be release prior to the opening of the fishery.

Thanks

From: MacIsaac, Shane
Sent: May-03-17 3:52 PM
To: Mills, Chris D; Mallet, Pierre
Cc: MacRae, Kent; Walker, Paul D; Sheidow, Don; Dionne, Michelle R
Subject: Mackerel

G'day guys;

I realize this is likely being worked on as I write this, however, now that we are around the wharves we are getting questions surrounding this seasons mackerel fishery from fishers and buyers. We will likely have some NB commercial mackerel drift netters here within a couple of weeks. Are commercial mackerel COL's close to being vetted and approved?

Based on what we know thus far.... all we have been telling them is we expect Catch-Monitoring, logbooks, mandatory hail to DMC and all fish to be weighed at point of landing and logbook entries made. Also advised that we are unsure of assigned Canadian Quota and not even sure if that is established yet.

Shane

R.Shane MacIsaac
Field Supervisor/Fishery Officer
Souris, PEI
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Fax: 902-687-3590
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Cawthray, Jenness

From: Rivierre, Antoine
Sent: May-04-17 9:38 AM
To: Lester, Brian; Mallet, Pierre; Dunne, Erin; Cawthray, Jenness; Waters, Christa
Subject: 40/60 split

I found these notes in an old email [redacted] who made a report of AMAC meeting in 2007:

4- Industrie d'accord avec un maintien du gel sur le nombre de permis pour les engins mobiles, incluant les chaluts semi-pélagiques = pas de nouveaux entrants

12- Partage du contingent canadien 75 000 (60 % pour les pêches côtières et 40% pour les pêches exploratoires): Malgré quelques demandent de modifier la répartition de 60/40, il a été décidé de maintenir le statu quo actuel étant donné le changement de migration du poisson et les négociations à venir avec les USA. Cependant, une certaine flexibilité sera effectuée à l'intérieur du 75 000 tm, si nécessaire.

I don't know if it can be helpful...

Antoine Rivierre

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s.21(1)(b)

Waters, Christa

From: Waters, Christa
Sent: May-04-17 10:29 AM
To: Berthier, Jacinta; Wentzell, Doug
Cc: Docherty, Verna
Subject: Mackerel call - briefing with RDG's tomorrow

Hello,
We just had a call with NHQ on mackerel. Apparently there is a briefing with the RDG's tomorrow on mackerel. [redacted]

[redacted]

Christa

Mackerel Memo + TAC Call Date 2017-05-05

NL:
MAR - Doug
Gulf - Mario Goudet,
QC - Antoine Rivard, Martin C
Jean - ↘
Martin - 1 in 50% of TAC will look negative for stock in cold zone, even if ended reduces to 4000 from 6000

Brian - model more accepted by industry
- NL rec. 36,000t
- most Gulf / QC was 20,000t
- Province 14-16,000t
- EAC / WWF - 8,000t
- Indigenous - no change to no fishery

Monitoring: if catches don't go thru
Buyer never in system ~1000t
C+P found 1-2 million lbs in freezers, uncounted in PEI
- DFO only gets slips from known people
- Current: mandatory mail, 25% dockside
- 100% NL monitor already
- QC - logbooks 45h after landing
- ~~MAR~~ - monthly / annual, some tweaks
- so 1-2,000t will more intended.

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s.21(1)(b)

Date

- so the increase is to let ppl know what effect the report Δ

Pierre - Gulf had rec. 20,000t ↑ monitor

Sylvie - so ↑ in monitor good

QC (Phillipe) : - glad progress in monitor
- need more (border critical
- eg mandatory logbooks for all
- industry approach? or not (advantage to fishery)
- increase is too much, some increase is OK, eg 10,000t given small MKL

Gulf (Serge Doucet) - we agree w recommended action.

- additional monitor could be improved next yr too

Brian - e-logs maybe 2018
- Rebuilding Plan option for ↑ monitor
- could also use Risk Assessment (eg Bluefin Tuna)
- incomplete logbooks → no more licence

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s.21(1)(b)

Date

Sylvie - run this New Catch Monitoring Framework
- need regional consistency

Doug - 8-10k range
Tony - support TAC rec
Martin - [redacted]
Jean - [redacted]

Sylvie - we need Trevor's input given current govt mandate

Philip - low risk
- ~~[redacted]~~ current freeze on mobile (2007) @ -50% TAC for assessment?
'consultation? AMAC

Brian - current judicial review from offshore given how 2016 went down
- if no fish in 3k, fishing will last longer

Jean - 1 yr TAC but 2yr assessment?
Brian - yes, will review 3k genetics
- AMAC will convene next year (or con call)

Sylvie - [redacted]
Jean - we need to see if catch monitoring

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Date

works next yr Brian-agreed

Martin - ok-t is best number we have,
memo is optimistic

Sylvie - want feedback as Monday am
- Kevin Stryk acty DM
- regardless of TAE monitg measures
change
- fishery advise/ stock maybe next week

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Marentette, Julie

Subject:	Call on Atlantic Mackerel
Location:	13W070 Dial in : 1-877- 413-4788 Code: 2925662
Start:	Fri 05/05/2017 2:00 PM
End:	Fri 05/05/2017 2:30 PM
Show Time As:	Tentative
Recurrence:	(none)
Meeting Status:	Not yet responded
Organizer:	Lapointe, Sylvie
Required Attendees:	Castonguay, Martin; Krohn, Martha; Lester, Brian; Burns, Adam; Lavoie, Pierre; Vincent, Patrick; Anderson, Kevin; Doucet, Serge; Valkenier, Mary-Ellen
Optional Attendees:	Quinn, Frank; LeCouffe, Marc; Mallet, Pierre; Saulnier-Cyr, Debbie; Perry, Jacqueline; Landry, Jean; Marentette, Julie; Blanchard, Tony; Boudreau, Suzie; Rivierre, Antoine; Wentzell, Doug

Draft for discussion.

MECTS-#376614...

Pages 2630 to / à 2637

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pages 2658 to / à 2665

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s.69(1)(g) re: (a)

Patrick, Lindsey

From: Baldwin, Jennifer
Sent: Friday, May 5, 2017 1:36 PM
To: Marroquin, René; Butcher, Ashley; Malko, Carol; Patrick, Lindsey
Cc: French, Christopher; Genier, Sylvie; Richter, Julie
Subject: EFM Weekly DM Informal Issues (week of May 1st)

Here is EFM's input for this week.

Thank you.
Jennifer

Fisheries Resource Management

[redacted]

MINO Briefings

Mackerel:

- There was a MINO briefing on mackerel science today where Jean Landry, Martha Krohn and ł DG FRM (Adam Burns) reviewed the improvements which have occurred in mackerel science over the last year as well as management improvements related to monitoring and reporting which are being implemented for the coming season. It went well, the only outcome being a request from MINO (Sheldon) that the department consider a joint technical briefing on science and management when the decision comes out -- perhaps one in English and one in French.

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Cyr, Charley

De: Doniol-Valcroze, Thomas
Envoyé: 5 mai 2017 17:27
À: Cyr, Charley
Cc: Gilbert, Michel; Castonguay, Martin
Objet: Avis Maquereau
Pièces jointes: AS_maquereau2017-fra.docx

Charley,

Voici l'avis scientifique sur le maquereau. Martin l'a revu. Je te l'envoie pour approbation régionale.

Thomas

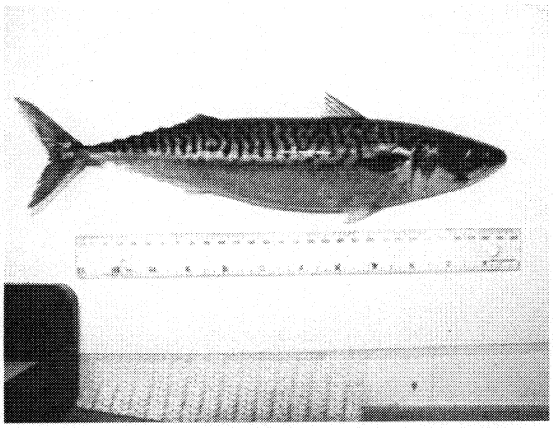
Thomas Doniol-Valcroze, PhD
Biologiste en sciences aquatiques | Aquatic Science Biologist
Direction des Sciences Pélagiques et des Écosystèmes | Pelagic and Ecosystems Sciences Branch
Pêches et Océans Canada | Fisheries and Oceans Canada
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Pêches et Océans Canada | Fisheries and Oceans Canada
Sciences des écosystèmes et des océans | Ecosystems and Oceans Science

Secrétariat canadien de consultation scientifique
Région du Québec **Avis scientifique 2017/nnn**

ÉVALUATION DU STOCK DE MAQUEREAU BLEU DU NORD-OUEST DE L'ATLANTIQUE (SOUS-RÉGIONS 3 ET 4) EN 2016



(Courtoisie: M. Claude Nozères)



Figure 1. Distribution (←) du maquereau (Scomber scombrus L.) dans le nord-ouest de l'Atlantique.

Contexte :

Le maquereau bleu (Scomber scombrus L.) fréquente les eaux de l'Atlantique Nord-Ouest de la Caroline du Nord à Terre-Neuve (Figure 1). Au printemps et à l'été, le maquereau fréquente les eaux côtières. Tard à l'automne et à l'hiver, on le retrouve en profondeur dans les eaux plus chaudes de la marge du plateau continental. Son aire de distribution est caractérisée par la présence de deux zones de ponte. En eaux canadiennes, la ponte se déroule principalement dans le sud du golfe du Saint-Laurent en juin et juillet. En eaux américaines, la ponte se produit entre les côtes du Rhode Island et de la Virginie au cours des mois de mars et avril.

Dans les provinces maritimes, à Terre-Neuve et au Québec (sous-régions 3 et 4 de l'OPANO), plusieurs milliers de pêcheurs commerciaux pratiquent la pêche au maquereau bleu. Celle-ci se déroule généralement près des côtes à l'aide du filet maillant, de la turlutte, de la ligne à la main, de la senne et de la trappe, selon la région et la période de l'année. Au cours des années 1980 et 1990, les débarquements des pêcheurs canadiens ont été stables avec une moyenne de 22 000 t par année. Cependant, une hausse importante s'est produite au début des années 2000 avec un maximum historique de 54 621 t en 2005. Les débarquements moyens de la période 2006-2010 ont été de 43 464 t. Ils ont été suivis d'une chute importante jusqu'à un minimum historique de 4134 t en 2015.

Les débarquements canadiens de maquereau sont sous-estimés à cause de la pêche d'appât non-rapportée. De plus, les prises de la pêche récréative, qui se déroule au cours des mois d'été le long de la côte atlantique, ne sont pas rapportées, tout comme les rejets de petits maquereaux.

La dernière évaluation du contingent canadien de maquereau remonte à mars 2014. La Direction de la gestion des pêches et de l'aquaculture a sollicité un avis scientifique concernant le contingent canadien de maquereau pour les saisons 2017 et 2018.

Date de publication (mois année)

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SOMMAIRE

- Les débarquements commerciaux rapportés des sous-régions 3 et 4 de l'OPANO ont considérablement diminué au cours des dernières années. Entre 2005 et 2013, ils sont passés de 54 621 t à 8 663 t, pour atteindre 6 680 t en 2014 et 4 143 t en 2015. En 2016, le TAC de 8 000 t a été atteint.
- Les débarquements américains (commerciaux et récréatifs) des sous-régions 5 et 6 de l'OPANO ont aussi connu une baisse importante au cours des dernières années. Entre 2005 et 2012, ils sont passés de 43 220 t à 6 000 t et sont restés à ce niveau de 2013 à 2015.
- La problématique des prises non-déclarées a été examinée à l'aide d'une synthèse des données disponibles sur les besoins en appât et sur les pêches récréatives, ainsi qu'à l'aide d'un sondage en ligne auprès des pêcheurs. Les deux approches montrent que les prises totales peuvent atteindre entre 150% et 200% des prises déclarées, et que ce rapport varie selon les provinces et au cours du temps.
- Suite à son augmentation au cours des dernières années, la longueur à 50 % de maturité se maintient légèrement au-dessus de la longueur minimale de capture autorisée de 263 mm.
- La structure d'âge au sein de la pêche s'est considérablement rétrécie depuis les années 2000 suite à la disparition des poissons de plus de 7 ans. Cependant, on observe une légère amélioration depuis 2013, avec une hausse d'abondance des maquereaux d'âge 5 et 6.
- L'indice d'abondance issu du relevé des œufs dans le sud du golfe a atteint son niveau le plus bas en 2012 (14 568 t), puis a remonté lentement jusqu'à 52 667 t en 2016. Cette valeur reste très en deçà des indices d'abondance de plus de 750 000t observés dans les années 1980.
- Un modèle statistique de prises à l'âge, dit « censuré », calibré par l'indice d'abondance des œufs et prenant en compte l'incertitude autour des prises non déclarées, confirme que la biomasse reproductrice du maquereau a décliné suite à des taux d'exploitation élevés et a atteint son minimum historique en 2012 (20 000 t). Selon le modèle, la biomasse en 2016 était de 40 000 t.
- Le Point de Référence Limite (PRL) pour ce stock est basé sur une approximation de $40\%B_{rms}$ à partir de $F_{40\%}$ tel qu'obtenu par une analyse de rendement par recrue. Suivant le modèle censuré, le stock se situe en 2016 à 40% du PRL de 103 000 t.
- Des projections permettent d'estimer les risques associés à différents scénarios de capture. Étant donné que le stock se situe dans la zone critique, la capture totale (déclarées + non-déclarées) devrait être suffisamment faible pour favoriser le rétablissement.
- Il est particulièrement important de pallier aux lacunes dans l'échantillonnage de la pêche commerciale dans certains secteurs, d'accélérer la compilation des statistiques de débarquements et d'améliorer la collecte des données sur les prises non-déclarées.

RENSEIGNEMENTS DE BASE

Perspectives historiques

Suite à l'arrivée d'une pêche étrangère, les débarquements de maquereau bleu (*Scomber scombrus* L.) dans le nord-ouest de l'Atlantique (sous-régions 2 à 6 de l'OPANO) ont connu une

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hausse importante à partir de la fin des années 1960 atteignant des maximums historiques de plus de 250 000 t par année entre 1970 et 1976. Les débarquements de maquereau ont considérablement diminué en 1977 lors de l'instauration de la zone économique exclusive des 200 milles marins. Cependant, suite à des ententes au début des années 1980 entre les États-Unis et l'URSS, ils ont à nouveau augmenté pour atteindre près de 90 000 t en 1990 (Figure 2). Les débarquements ont connu par la suite une autre baisse importante en raison d'une réduction graduelle des contingents alloués par les États-Unis à l'URSS et de la fermeture complète de la pêche étrangère en 1992.

Les débarquements de maquereau ont connu une hausse de près de 400 % entre 2000 et 2006 en raison de la présence d'une classe d'âge très importante (1999) et d'une augmentation marquée de l'effort de pêche des petits et grands senneurs des côtes est et ouest de Terre-Neuve (Divisions 3KL et 4R). Des débarquements totaux de plus de 100 000 t ont été atteints en 2004 et 2006. Depuis 2006, les débarquements sont à la baisse et en 2015 ils étaient les plus faibles de la série historique Canada – États-Unis.

Le Total Admissible des Captures (TAC) pour le nord-ouest de l'Atlantique a été fixé à 200 000 t entre 1987 et 2000. Suite aux faibles biomasses estimées par le relevé canadien des œufs en 1996, 1998 et 2000, le TAC a été abaissé par le Canada à 150 000 t entre 2001 et 2009. Le TAC des sous-régions 3–4 est passé à 80 000 t suite à l'évaluation conjointe entre les États-Unis et le Canada de 2009–2010, à 60 000 t suite au Comité consultatif canadien de 2010 et à 36 000 t suite au Comité consultatif canadien de 2012. Durant tout cette période, les TAC canadiens n'ont jamais été atteints et n'ont donc pas eu de caractère limitant. En 2014, le TAC a été fixé à 8 000 t malgré un avis scientifique qui recommandait des prises annuelles ne dépassant pas 800 t (MPO, 2014).

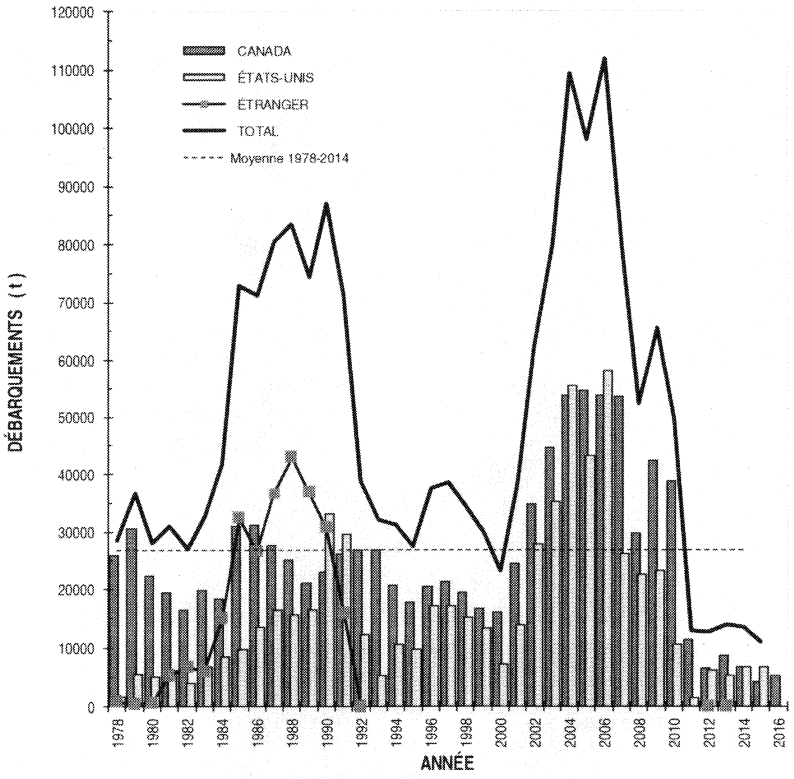


Figure 2. Débarquements (t) annuels de maquereau pour le nord-ouest de l'Atlantique (sous-régions 2 à 6 de l'OPANO) depuis 1978.

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Débarquements en 2014 – 2016

Pour l'est du Canada (sous-régions 3 et 4 de l'OPANO), les débarquements se sont élevés à 6 680 t en 2014 et 4 143 t en 2015 (Tableau 1). Les débarquements de 2015 sont les plus bas de toute la série historique (depuis 1960) et restent très inférieurs à ceux des années 2001–2010. En 2016, le TAC de 8 000 t a été atteint pour la première fois (mais le décompte des débarquements par région est encore préliminaire). Aux États-Unis, les débarquements sont restés stables en dessous de 6 000 t depuis 2012, mais les chiffres pour 2016 ne sont pas encore disponibles.

Tableau 1. Débarquements (t) annuels de maquereau dans les sous-régions 2 à 6 de l'OPANO entre 2001 et 2016. Les débarquements canadiens de 2015 et 2016 sont préliminaires. Contrairement aux États-Unis, le Canada ne comptabilise pas les captures des pêches récréatives.

ANNÉE	CANADA	ÉTATS-UNIS		TOTAL
	Navires canadiens	Commercial	Récréatif	
2001	24 429	12 340	1 536	**38 305**
2002	34 662	26 530	1 294	**62 485**
2003	44 736	34 298	770	**79 804**
2004	53 777	54 990	473	**109 240**
2005	54 621	42 187	1 032	**97 840**
2006	53 649	56 640	1 511	**111 801**
2007	53 016	25 547	584	**79 147**
2008	29 671	21 734	783	**52 188**
2009	42 231	22 635	603	**65 470**
2010	38 753	9 877	759	**49 388**
2011	11 400	531	932	**12 863**
2012	6 582	5 333	668	**12 487**
2013	8 663	4 372	887	**12 681**
2014	6 680	5 905	788	**13 373**
2015 [1]	4 143	5 616	1 157	**10 917**
2016 [1]	5 357	n/a	n/a	**5 357**

[1] Préliminaire

Des 4 143 t de maquereau capturées en eaux canadiennes en 2015, seulement 17% (700 t) ont été débarquées à Terre-Neuve alors que cette proportion était en moyenne de 71% de 2001 à 2010 et de 54% depuis 2011. Par contre, en 2016, ce sont 4 513 t qui ont été débarquées à Terre-Neuve (soit plus de la moitié du TAC commercial), dont 1 710 t dans 4R et 2 803 t dans 3K, alors qu'il n'y avait pas eu de débarquements significatifs dans 3K depuis 2010 (Tableau 2). Les principaux engins de pêche utilisés en 2015 étaient la ligne à la main (avec 1 377 t sur 4 143 t), alors qu'en 2016 les engins majoritaires ont été la petite senne bourse avec 3 657 t.

Depuis plusieurs années, 40 % du TAC canadien est alloué aux grands senneurs et 60 % aux petits senneurs, à la senne "tuck" et aux engins fixes comme la trappe, le filet maillant, la ligne et la fascine. Dans le cas des grands senneurs, seulement 10% de leur allocation a été capturée en 2015 et 3% en 2016.

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Tableau 2. Débarquements (t) annuels de maquereau par division de l'OPANO depuis 2001. Les débarquements de 2015 et 2016 sont préliminaires.

DIVISION ET RÉGION	ANNÉE															
	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015 [1]	2016 [1]
2J	0	0	0	0	0	0	0	0	0	0	0	78	4	0	0	0
3K	322	6 566	588	16 360	24 024	19 176	8 768	9 125	6 898	12 916	426	129	191	6	208	2803
3L	10	3	0	59	4 068	7 960	10 673	4	39	830	61	3	0	25	54	0
3O	0	0	0	0	0	0	27	0	0	0	0	0	0	0	0	0
3P	273	162	149	79	238	266	354	166	5 387	5 541	1 544	149	26	246	0	0
4R	8 375	11 251	25 938	23 885	14 141	16 874	24 782	13 741	21 913	13 871	5 306	2 261	4 909	3 155	438	1710
4S	16	2	0	0	35	76	19	23	64	123	107	304	245	20	29	63
4T	12 316	14 484	14 324	9 152	9 424	7 785	5 763	5 439	6 815	4 919	3 549	2 866	2 748	2 389	2 242	750
4V	125	308	60	13	126	224	370	111	55	7	2	150	146	143	58	0
4W	248	115	9	59	36	75	59	63	65	129	18	177	17	220	186	0
4X	2 743	1 771	3 669	4 169	2 529	1 304	1 928	1 000	980	416	389	365	241	340	682	0
5YZ	0	0	0	0	0	0	0	0	16	0	0	0	0	0	245	0
Non déterminé	0	0	0	0	0	0	652	0	0	0	0	100	137	135	0	31
Plateau néo-écossais (4VWX5YZ)	**3 117**	**2 194**	**3 737**	**4 241**	**2 691**	**1 603**	**2 357**	**1 173**	**1 116**	**552**	**409**	**692**	**403**	**703**	**1172**	**0**
Golfe du Saint-Laurent (4RST)	**20 707**	**25 737**	**40 262**	**33 037**	**23 600**	**24 735**	**31 129**	**19 203**	**28 792**	**18 913**	**8 962**	**5 431**	**7 902**	**5 564**	**2 710**	**2 523**
Côtes est et sud de Terre-Neuve (2J3KLOP)	**605**	**6 731**	**737**	**16 498**	**28 330**	**27 403**	**19 529**	**9 295**	**12 324**	**19 288**	**2 031**	**359**	**221**	**278**	**262**	**2803**
TOTAL	**24 429**	**34 662**	**44 736**	**53 777**	**54 621**	**53 741**	**53 394**	**29 671**	**42 231**	**38 753**	**11 400**	**6 582**	**8 663**	**6 680**	**4 143**	**5 357**

Prises non-déclarées

Les prises non-déclarées représentent une problématique importante dans la pêche au maquereau. En effet, une quantité importante de captures de la pêche commerciale vendues directement entre pêcheurs ainsi que de la pêche à l'appât utilisé pour usage personnel ne sont pas comptabilisées dans les statistiques du MPO. Les captures de la pêche récréative, qui est très populaire durant les mois d'été, ne sont pas comptabilisées non plus. Comme cette activité est pratiquée partout dans l'est du Canada par un très grand nombre de gens incluant les touristes – à quai ou à bord de navires nolisés et de façon quasi commerciale à certains endroits – les prises réelles de maquereau sont grandement sous-estimées. Depuis plusieurs années, les avis scientifiques sur le maquereau bleu comportaient une recommandation d'améliorer les statistiques de pêche dans leur ensemble, et d'effectuer une réflexion sur les façons d'estimer toutes ces captures.

Dans le cadre de la présente évaluation, la problématique des prises non-déclarées a d'abord été examinée à l'aide d'une synthèse des données disponibles sur les besoins en appât et sur les pêches récréatives. Les résultats de ces recherches ont permis d'estimer un maximum approximatif de captures non-déclarées pour chacune des régions de gestion et la manière dont ces captures ont pu varier au cours du temps. De plus, une enquête informelle sur Internet, à l'intention de tous les pêcheurs canadiens de maquereau, a permis d'obtenir de leur part une estimation approximative de la proportion de prises non déclarées (appâts, rejets et prises

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récréatives). L'étude a porté sur 476 répondants des 4 provinces de l'Atlantique et du Québec, qui ont pêché le maquereau pour l'appât ou à des fins récréatives ou commerciales (Van Beveren et al. 2017). Les résultats indiquent que plus de la moitié du maquereau utilisé comme appât en 2016 servait principalement pour la pêche au homard, mais d'autres espèces dont le thon rouge (*Thunnus thynnus*), le crabe des neiges (*Chionoecetes opilio)* et le flétan atlantique (*Hippoglossus hippoglossus*). La pêche récréative, généralement avec la ligne à main, peut également être pratiquée de manière semi-professionnelle avec des turluttes et des filets maillants, de sorte qu'elle ne doit pas être négligée. De plus, d'après les répondants, 1,9% des captures ont été rejetées, principalement à cause de la petite taille des poissons.

Les deux approches utilisées (synthèse des besoins en appât et sondage en ligne) suggèrent qu'en raison de l'utilisation d'appât, de la pêche récréative et des rejets, la capture totale de maquereau pourrait représenter de 150 % à 200% des prises déclarées, et que ce rapport varie selon les provinces et au cours du temps.

ÉVALUATION

Structure d'âge et fréquences de longueur des captures

La structure d'âge chez le maquereau est principalement influencée par l'arrivée périodique de classes d'âge dominantes. De telles classes d'âge, comme celles de 1967, 1974, 1982, 1988 et 1999 ont complètement dominé les captures commerciales pendant plusieurs années. Par exemple, les poissons de la classe d'âge de 1999 ont contribué jusqu'à 77 % de toutes les captures (en nombre) réalisées entre 2000 et 2004. L'abondance de cette classe d'âge a décliné rapidement à partir de 2004 et qui n'a pas persisté dans la population aussi longtemps que les fortes classes d'âge précédentes (Figure 3). Depuis, la pêche est plutôt caractérisée par une capture rapide de nouvelles classes d'âge de moyenne importance (p. ex. 2003, 2005, 2007, 2008 et 2010) et la structure d'âge au sein de la pêche s'est considérablement rétrécie depuis les années 2000 suite à la disparition des poissons de plus de 7 ans. Cependant, on observe une légère amélioration depuis 2013, avec une hausse d'abondance des maquereaux d'âge 5 et 6 (Figure 4).

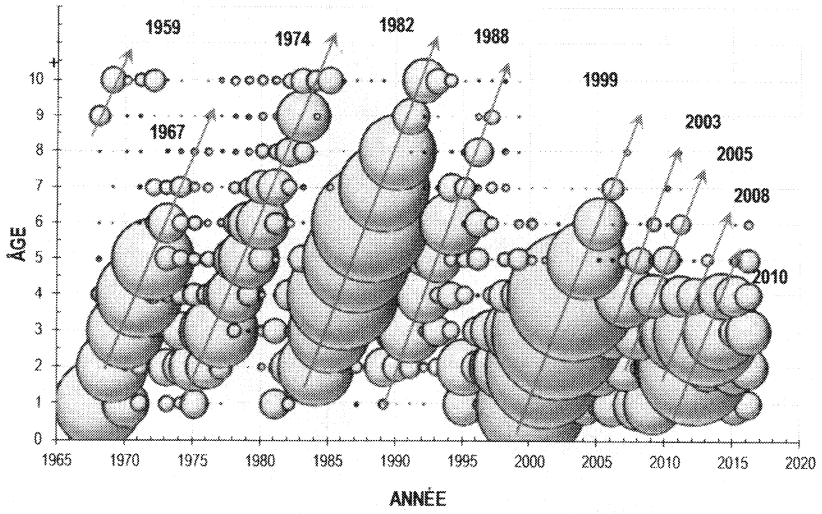


Figure 3. Capture à l'âge dans la pêche commerciale (les classes d'âge dominantes sont indiquées par des flèches rouges).

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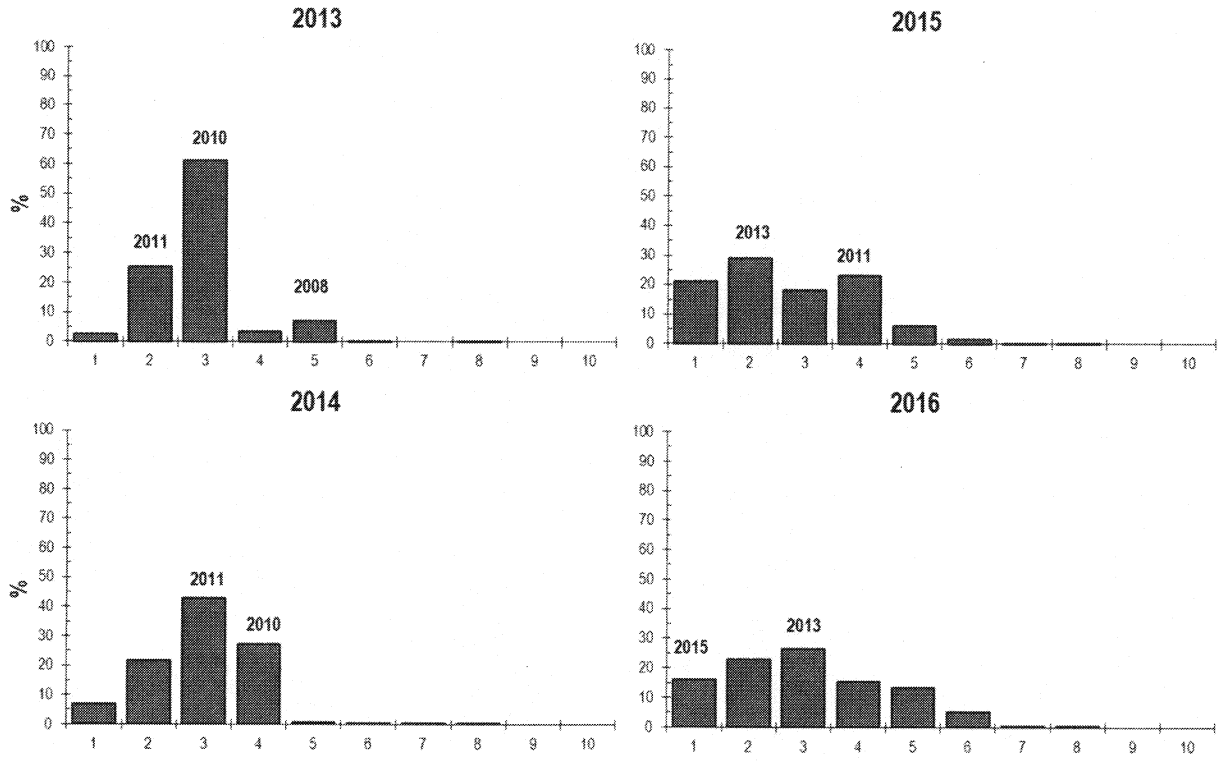


Figure 4. Proportion des classes d'âge dans la pêche commerciale (les dates au-dessus des barres indiquent la progression des classes d'âge dominantes).

Les fréquences de longueur du maquereau sont caractérisées par la présence de modes principaux qui correspondent aux classes d'âge dominantes et se déplacent au cours du temps vers de plus grandes tailles. Ces modes sont observés dans les fréquences de longueur de tous les engins de pêche. Cependant, la première année de détection de ces classes d'âge dans les fréquences de longueur varie selon la sélectivité des engins de pêche et donc selon les régions. Pour l'année 2016, on observe dans 4R un pic de fréquence de poissons de petite taille, correspondant à des maquereaux de la classe d'âge de 2015 (Figure 5). Ce pic important pourrait indiquer qu'un fort recrutement a eu lieu en 2015, et constituer un signe avant-coureur de l'entrée d'une cohorte importante dans la pêche en 2017. Dans une moindre mesure, on observe aussi ce signal dans les captures de 4T, mais pas dans 3K et 4S.

Indicateurs biologiques

La proportion des poissons matures à l'âge a très peu varié au cours des ans. L'âge moyen à 50 % de maturité (A_{50}) était de 1,40 au cours des années 2000, et de 1.39 entre 2010 et 2015. Par contre, la longueur moyenne à 50 % de maturité (L_{50}) a considérablement varié au cours des ans (Figure 6). L_{50} a été supérieure à la taille minimale de capture autorisée de 250 mm pour la plupart des années de la période 1974–2013, ce qui suggère qu'une pression de pêche importante a été exercée sur les immatures. L'augmentation de la longueur minimale de capture autorisée de 250 à 263 mm, qui a eu pris effet en 2014, et l'application du protocole de petit poisson développé pour le maquereau, devrait permettre d'augmenter le potentiel reproducteur en diminuant cette pression. Suite à son augmentation au cours des dernières années, L_{50} s'est maintenue légèrement au-dessus de la longueur minimale de capture autorisée de 263 mm depuis 2013, ce qui indique que la limite actuelle reste appropriée.

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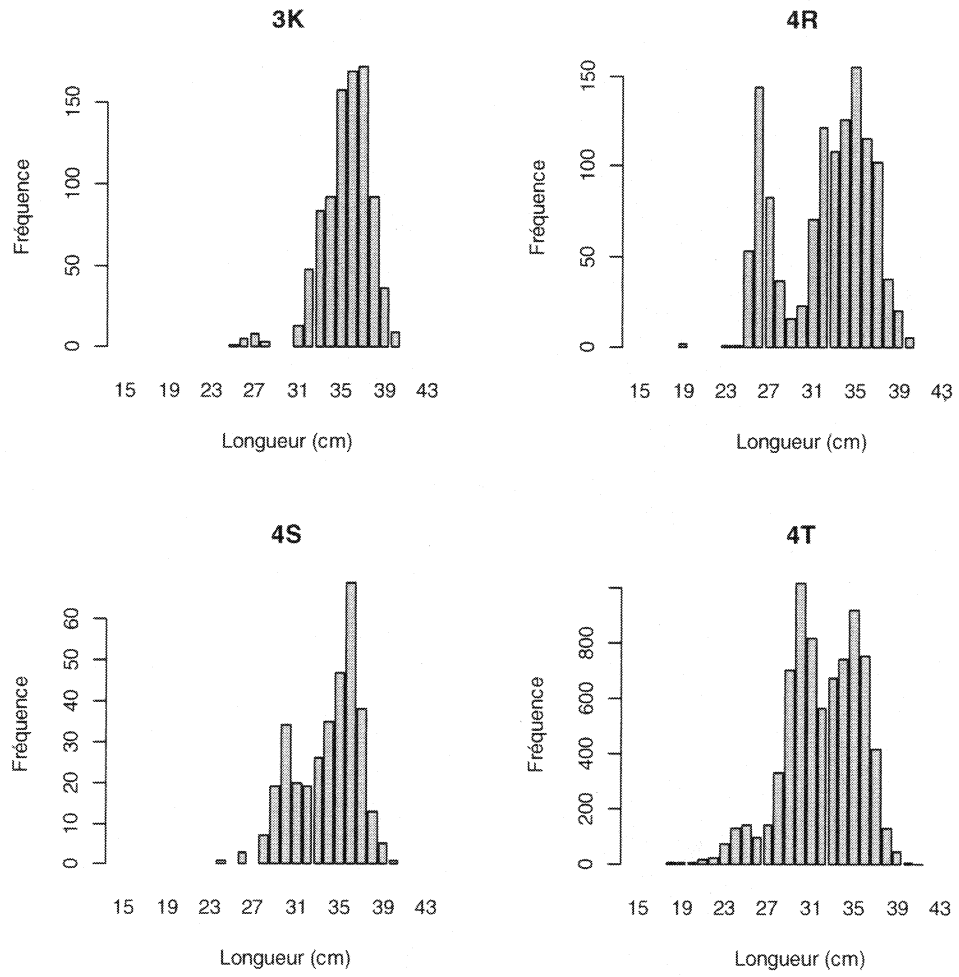


Figure 5. Fréquence de longueur du maquereau capturé dans les divisions 3K, 4S, 4R et 4T en 2016.

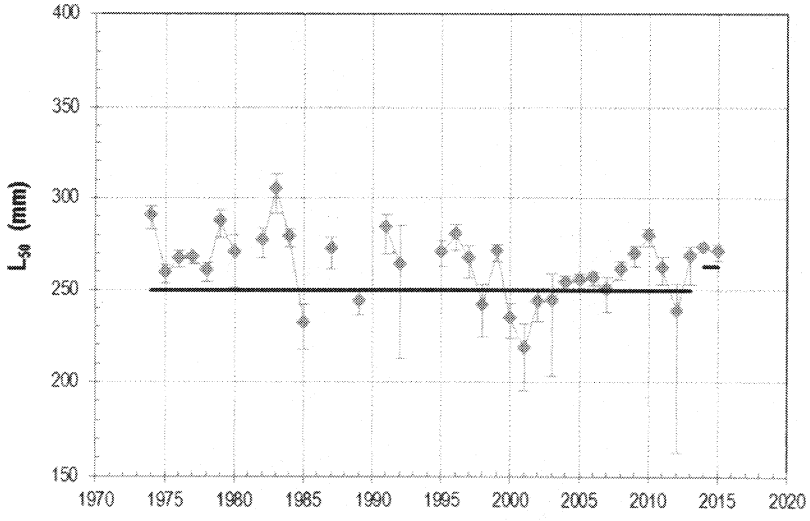


Figure 6. Longueur à 50 % de maturité (moyennes annuelles avec intervalles de confiance à 95 %) du maquereau bleu des sous-régions 3-4 de l'OPANO depuis 1973 (la ligne horizontale indique la longueur minimale de capture autorisée, de 250 mm jusqu'en 2013 et de 263 mm à partir de 2014).

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Relevé des œufs et indice d'abondance

L'abondance du maquereau est estimée à partir des données provenant d'un relevé des œufs qui se déroule annuellement sur le site de fraie principal dans le sud du golfe du Saint-Laurent. Lors des relevés réalisés en 2013 et 2014, les plus importantes densités d'œufs (n/m^2) ont été retrouvées dans le nord-ouest de la zone échantillonnée (Figure 7). En 2015 et 2016, la distribution des œufs était plus étendue, notamment vers le centre et le sud de la zone d'étude, sans toutefois pouvoir se comparer aux distributions très étalées observées dans les années 1990.

En tenant compte de la température de l'eau et du temps d'incubation, ainsi que du poids moyen et de la fécondité des femelles dans les échantillons biologiques, les densités d'œufs permettent le calcul d'un indice d'abondance de la biomasse reproductrice. Cet indice a augmenté de manière importante à trois reprises au cours des ans en raison de l'arrivée des classes d'âge dominantes de 1982, 1988 et 1999 (Figure 8). L'indice a présenté une chute importante entre 1993 et 1998 puis à nouveau après 2002, pour atteindre son niveau le plus bas en 2012 (14 568 t). Il a ensuite remonté lentement jusqu'à 52 667 t en 2016. Cette valeur reste très en deçà des indices d'abondance de plus de 750 000 t observés dans les années 1980.

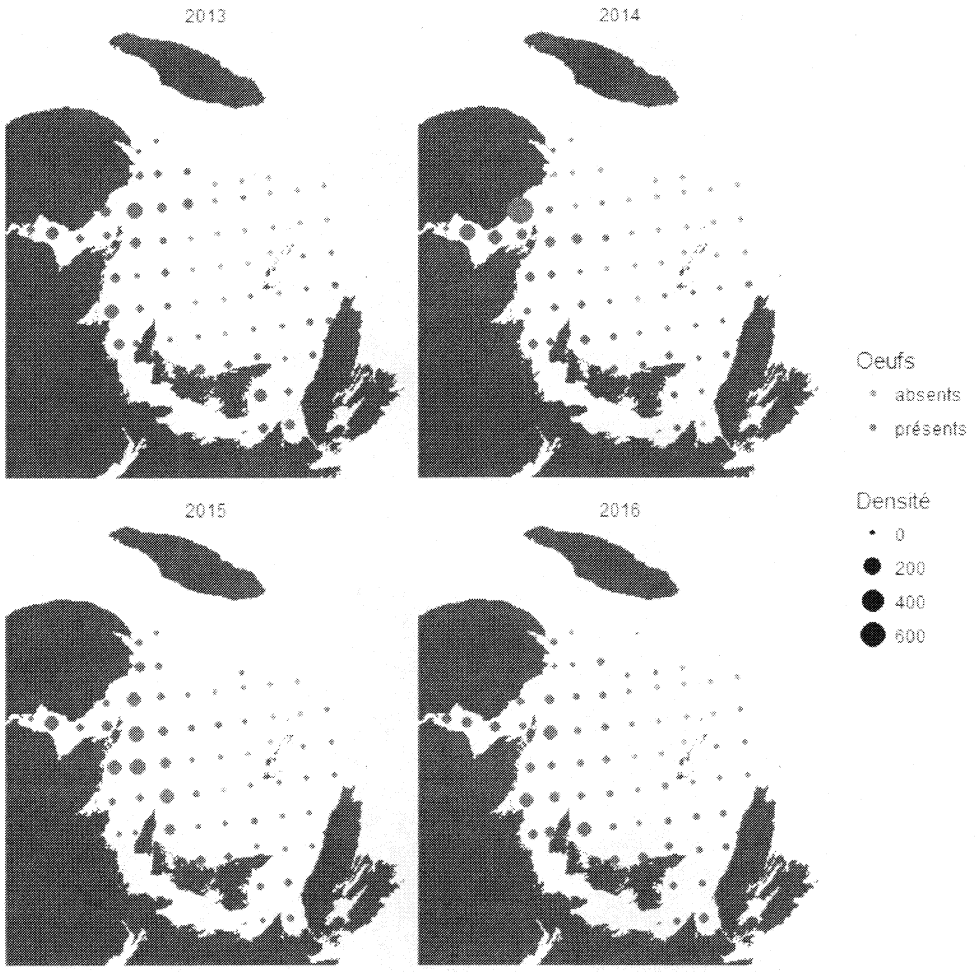


Figure 7. Distribution des densités (n/m^2) d'œufs (stades 1 et 5) de maquereau mesurées lors des relevés dans le sud du golfe du Saint-Laurent.

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En 2015 et 2016, cinq relevés additionnels ont été menés dans les baies White et Notre-Dame, sur la côte nord-est de Terre-Neuve (3K), suite à des observations de jeunes maquereaux par l'industrie. Ces relevés, répétés à plusieurs reprises au cours de l'été, visaient à déceler d'éventuelles zones additionnelles de frai. Cependant, aucun signe de ponte du maquereau n'a été détecté dans les échantillons prélevés et la zone du sud du golfe reste donc la principale aire de frai prise en compte dans cette évaluation pour les sous-régions 3 et 4.

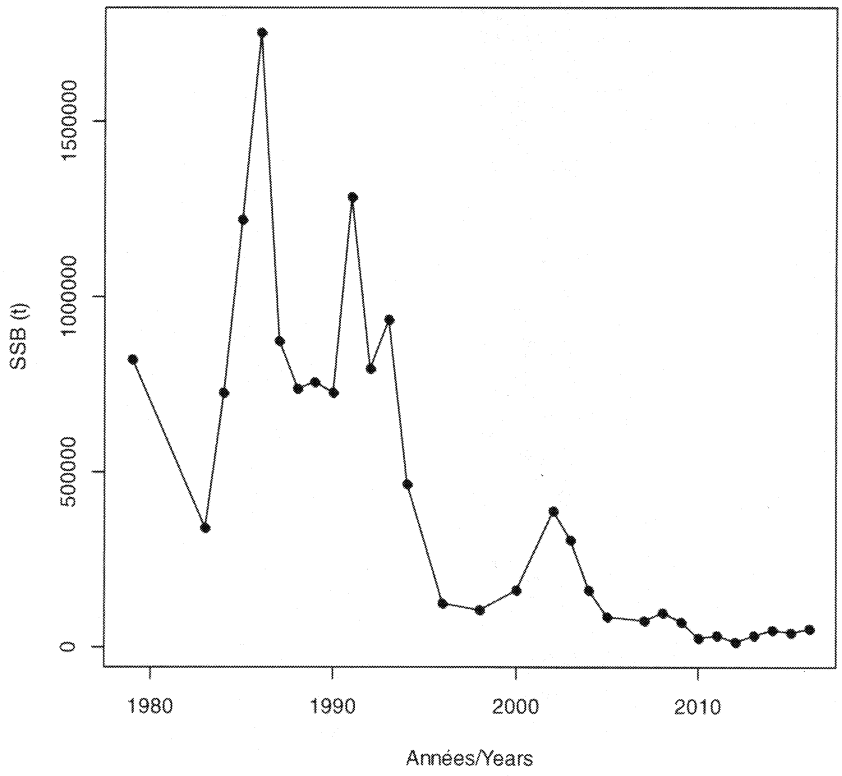


Figure 8. Indice d'abondance de la biomasse reproductrice du maquereau calculé selon la méthode de la Production Totale d'œufs, à partir des densités d'œufs observées dans le sud du golfe en juin.

Évaluation analytique

Les évaluations analytiques de 2012 et 2014 n'utilisaient que les prises déclarées et par conséquent étaient soupçonnées de sous-estimer la taille réelle du stock de maquereau. Un nouveau modèle a été développé spécifiquement pour pallier à cette lacune dans le cas du maquereau bleu. Ce modèle statistique de prises à l'âge, dit « censuré » utilise une nouvelle approche dans laquelle les prises déclarées sont explicitement considérées biaisées, et inférieures aux prises totales réelles. La valeur des prises totales est estimée par le modèle en fonction des données d'abondance et de prises-à-l'âge. Pour ceci, il est nécessaire d'imposer une limite supérieure aux prises supplémentaires. Ces valeurs maximales pour les prises non-déclarées ont été informées, dans la mesure du possible, au moyen des informations disponibles sur l'industrie de la pêche à l'appât (et dont l'ordre de grandeur a été confirmé par les résultats du sondage en ligne).

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Ce modèle « censuré », calibré par l'indice d'abondance des œufs et prenant en compte l'incertitude autour des prises non déclarées, confirme que la biomasse reproductrice du maquereau a décliné suite à des taux d'exploitation élevés dans les années 1990 et 2000, et a atteint son minimum historique en 2012 (20 000 t). Selon le modèle, la biomasse reproductrice a ensuite augmenté lentement, pour atteindre environ 40 000 t en 2016 (Figure 9a).

De plus, le modèle suggère que les prises supplémentaires (différence entre les prises totales estimées et les captures déclarées) se sont élevées à 6 000 t en moyenne au cours des 10 dernières années (Figure 9b).

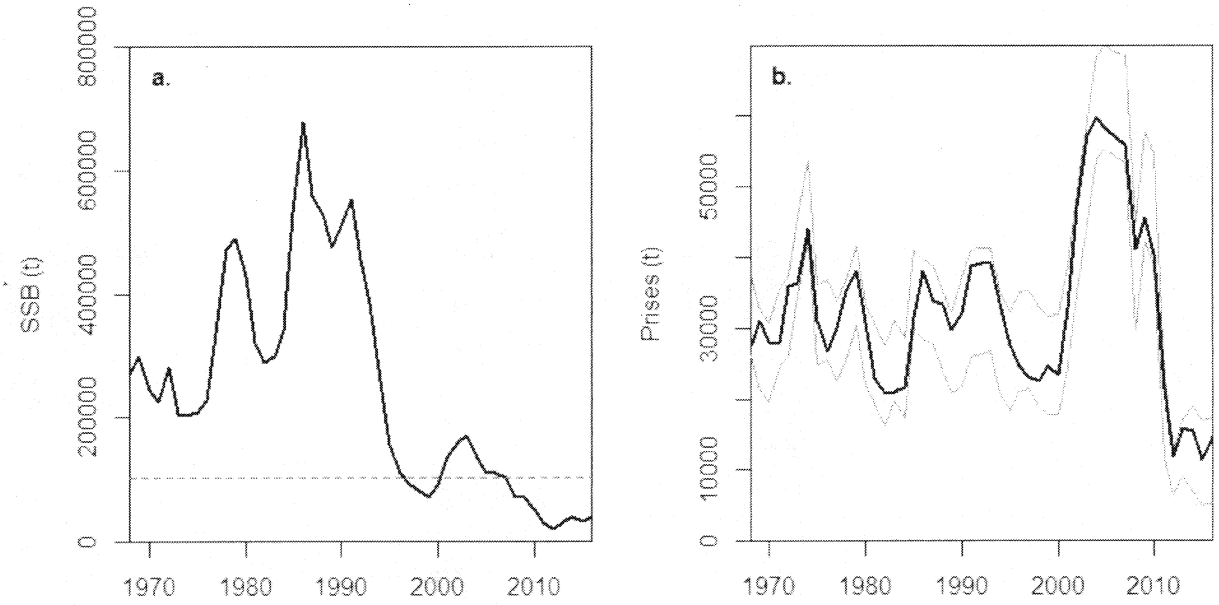


Figure 9. a) Biomasse reproductrice du maquereau des sous-régions 3-4 de l'OPANO pour la période 1968–2013, estimée par un modèle statistique de prises à l'âge, dit « censuré »; ligne rouge pointillée : point de référence limite. b). Prises estimées pour les sous-régions 3-4 de l'OPANO. Ligne grise inférieure : limite inférieure du modèle censuré (= prises déclarées); ligne grise supérieure : limite supérieure (basée sur les besoins en appât et estimation des pêches récréatives); ligne noire : prises totales (déclarées + non-déclarées) estimées par le modèle.

Conformément au cadre canadien sur l'approche de précaution, le Point de Référence Limite (PRL) pour ce stock représente 40% de la biomasse correspondant au rendement maximal soutenu (B_{rms}). Cependant, comme on n'observe pas de relation stock-recrutement claire pour ce stock pélagique, B_{rms} est basée sur une approximation à partir de $F_{40\%}$ tel qu'obtenu par une analyse de rendement par recrue. Selon le modèle statistique, le PRL serait égal à 103 000 t, et le stock se situerait donc en 2016 à 40% du PRL.

Des projections sur trois ans ont été réalisées à partir du modèle censuré afin d'estimer les impacts de différents scénarios de captures totales (déclarées + non-déclarées) pour 2017 et 2018. Ces projections utilisent les paramètres moyens des trois dernières années (ex : poids-à-l'âge, maturité) et un recrutement aléatoire (qui ne considère pas la possiblité d'un évènement de recrutement extrême). Entre autres, ces projections suggèrent que la probabilité d'une augmentation de la biomasse est supérieure à 80 % pour des niveaux de captures totales inférieurs à 14 000 t par année (Tableau 3). Le choix du TAC commercial doit tenir compte de l'incertitude quant au niveau réel des prises non-déclarées, dont la quantité exacte est inconnue mais qui sont estimées par le modèle à environ 6 000 t par année pour la période 2011 – 2016.

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Ainsi, un TAC de 8 000 t (statu quo) résulterait en une probabilité de croissance de la biomasse de 81 % et une probabilité d'atteindre le PRL de 30 % d'ici 2019, en assumant des captures non-déclarées de l'ordre de 6 000 t en 2017 et en 2018.

Tableau 3. Projections de la biomasse reproductrice (B.R.) et du taux d'exploitation du stock de maquereau en fonction de différents scénarios de prises totales (déclarées + non-déclarées), réalisées à partir du modèle statistique de prises à l'âge, dit « censuré ». Pour 2019, le tableau indique la probabilité de croissance (B.R. supérieure à celle de 2016) et la probabilité de dépasser le PRL de 103 000 t.

prises déclarées + non-déclarées (t)		2017		2018		2019		
2017	2018	B.R. (t)	Taux exp.	B.R. (t)	Taux exp.	B.R. (t)	prob. >2016	prob. >PRL
0	0	48 283	0.00	77 164	0.00	113 886	0.95	0.56
4 000	4 000	48 283	0.08	72 175	0.06	103 378	0.93	0.50
6 000	6 000	48 283	0.13	68 503	0.09	96 927	0.92	0.46
8 000	8 000	48 283	0.17	64 910	0.12	90 889	0.89	0.42
10 000	10 000	48 283	0.21	62 762	0.16	85 686	0.87	0.40
12 000	12 000	48 283	0.25	59 466	0.21	77 143	0.84	0.34
14 000	14 000	48 283	0.29	56 858	0.24	72 189	0.81	0.30
16 000	16 000	48 283	0.33	54 018	0.29	66 158	0.77	0.26
18 000	18 000	48 283	0.38	50 928	0.36	57 113	0.70	0.20
20 000	20 000	48 283	0.42	47 502	0.42	51 348	0.64	0.17
24 000	24 000	48 283	0.50	41 704	0.59	35 728	0.44	0.09
30 000	30 000	48 283	0.62	33 053	0.90	17 199	0.16	0.02

Sources d'incertitude

Les captures non-rapportées de la pêche à l'appât et des pêches récréatives constituent toujours une importante source d'incertitude dans l'évaluation du stock de maquereau. Le développement et l'utilisation d'un modèle statistique « censuré » qui prend en compte l'incertitude entourant les captures permet de proposer une estimation plus réaliste des captures totales, de la biomasse reproductrice et du taux d'exploitation du stock. Cependant, cet outil statistique ne permet pas de prédire les prises non-déclarées futures et ne se substitue en rien au besoin impératif de mieux comptabiliser les prises totales dans la pêche au maquereau.

Les rejets de petits maquereaux dont la longueur est sous la taille minimale de capture autorisée (263 mm) représentent également un problème. L'étendue des rejets et l'impact de cette activité sur l'abondance des classes d'âges à des âges plus avancés sont difficiles à quantifier.

Il existe plusieurs lacunes dans le programme d'échantillonnage biologique de la pêche commerciale, notamment dans le sud du golfe et dans les Maritimes. Le faible nombre d'échantillons disponibles dans ces régions, particulièrement en période pré-reproduction, limite notre capacité à décrire la période de ponte et la condition des poissons, ce qui peut avoir des impacts sur le calcul de l'indice d'abondance tiré du relevé des œufs.

Lorsque survient un épisode important de recrutement, il est difficile de le détecter dans les données scientifiques (échantillonnage de la pêche, relevé des œufs) avant que la cohorte correspondante n'ait atteint l'âge de 2 ans. Cependant, un pic de fréquence de poissons de petite taille, correspondant à des maquereaux de la classe d'âge de 2015, a été observé dans la pêche de 4R en 2016. De plus, environ la moitié des pêcheurs qui ont répondu au sondage en ligne ont indiqué que le petit maquereau était très abondant en 2016. Ces signaux pourraient indiquer que le recrutement en 2015 a été plus important que ceux observés dans les années récentes.

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CONCLUSIONS ET AVIS

L'avis scientifique précédent (2014) était biaisé parce qu'il n'incluait pas d'estimations des captures non-déclarées. L'avis présent inclut les meilleures estimations possibles des captures non-déclarées en utilisant un nouveau modèle statistique, et propose donc une estimation plus réaliste de la biomasse reproductrice.

Selon les résultats de cette évaluation, le stock de maquereau bleu dans les sous-régions 3 et 4 a atteint son plus bas niveau historique en 2012. Le modèle statistique suggère que les niveaux de capture des dernières années ont permis une croissance lente de 2013 à 2016 et une légère amélioration de la structure d'âge, mais n'indique aucun épisode important de recrutement depuis 1999.

Des projections qui tiennent compte des captures non déclarées suggèrent que la probabilité d'une augmentation de la biomasse est supérieure à 80 % pour des niveaux de captures totales (déclarées + non déclarées) inférieurs à 14 000 t. Cependant, étant donné que le stock se situe actuellement dans la zone critique, la priorité devrait être à la reconstruction et les captures totales devraient être limitées de façon à favoriser l'accroissement de la biomasse reproductrice pour permettre à la population d'atteindre le PRL.

De plus, le choix du TAC commercial doit tenir compte des prises non-déclarées, dont la quantité exacte est inconnue mais qui sont estimées à plusieurs milliers de tonnes par année. Ainsi, un TAC de 8 000 t (statu quo) résulterait en une probabilité de croissance de la biomasse de 81 % et une probabilité d'atteindre le PRL de 30 % d'ici 2019, en assumant des captures non-déclarées de l'ordre de 6 000 t en 2017 et en 2018.

De plus, il est particulièrement important de pallier aux lacunes dans l'échantillonnage de la pêche commerciale dans certains secteurs, d'accélérer la compilation des statistiques de débarquements et d'améliorer la collecte des données sur les prises non-déclarées.

SOURCES DE RENSEIGNEMENTS

Le présent avis scientifique découle de la réunion régionale du 18 au 20 janvier 2017 sur la révision du cadre d'évaluation pour le maquereau bleu et de la réunion régionale des 8 et 9 mars 2017 sur l'évaluation du maquereau bleu des sous-régions 3 et 4. Toute autre publication découlant de cette réunion sera publiée, lorsqu'elle sera disponible, sur le calendrier des avis scientifiques de Pêches et Océans Canada.

MPO. 2014. Évaluation du stock de maquereau bleu du nord-ouest de l'Atlantique (sous-régions 3 et 4) en 2013. Secr. can. de consult. sci. du MPO, Avis sci. 2014/030.

Van Beveren, E., Castonguay, M., Doniol-Valcroze, T., and Duplisea, D. 2017. Results of an informal survey of Canadian Atlantic mackerel commercial, recreational and bait fishers. DFO Can. Sci. Advis. Sec. Res. Doc. 2017/029. v + 26 p.

002652

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CE RAPPORT EST DISPONIBLE AUPRÈS DU :

Centre des avis scientifiques (CAS)
Nom de la région
Pêches et Océans Canada
Adresse postale complète du bureau régional

Téléphone :
Courriel :
Adresse Internet : www.dfo-mpo.gc.ca/csas-sccs/

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Also available in English:

DFO. 2017. Assessment of the Atlantic Mackerel Stock for the Northwest Atlantic (Subareas 3 and 4) in 2016. DFO Can. Sci. Advis. Sec. Sci. Advis. Rep. 2017/nnn.

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s.21(1)(b)

Castonguay, Martin

De: Castonguay, Martin
Envoyé: 5 mai 2017 15:12
À: Gilbert, Michel; Doniol-Valcroze, Thomas; de Lafontaine, Yves
Objet: RE: Appel du vendredi 5 mai concernant le TAC du maquereau
Pièces jointes: MECTS-#3766140-v7-2017_ATLANTIC_MACKEREL_MANAGEMENT_MEASURES.DOCX

Bonjour,

Vous trouverez en remorque l'ébauche de memo sur le TAC envoyé peu avant l'appel conférence. L'appel était présidé par Sylvie Lapointe et incluait tous les DGR Atlantiques, la Gestion des pêches d'Ottawa, les Sciences d'Ottawa et moi. Ça a discuté fort. Martha Krohn (Sciences, Ottawa) a d'abord fait un bref rappel de l'évaluation. Les DGR Québec a [redacted] suggéré certaines améliorations au memo en ce qui concerne les mesures à mettre en œuvre pour mieux déclarer les captures. Le DGR Maritimes a rappelé sa recommandation [redacted] Les DGR Golfe et TN ont tous deux indiqué qu'ils appuyaient le memo [redacted]

Sylvie a ensuite demandé aux Sciences s'ils étaient à l'aise avec un tel memo. [redacted]

Jean a aussi mentionné qu'il devait discuter de ceci avec Trevor. Il ne faut pas oublier que Trevor doit aussi signer ce memo.

Sylvie a observé qu'il y avait désaccord et a mentionné que le memo serait modifié et qu'un nouvel appel aurait lieu mardi.

Je pourrai prendre l'appel à partir de Woods Hole avec Thomas.

À suivre,

Martin

De : Castonguay, Martin
Envoyé : 5 mai 2017 13:43
À : Gilbert, Michel; Doniol-Valcroze, Thomas; de Lafontaine, Yves
Objet : RE: Appel du vendredi 5 mai concernant le TAC du maquereau

Michel,

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s.21(1)(b)

Je participe à l'appel de Québec. [redacted]

[redacted]

Martin

De : Gilbert, Michel
Envoyé : 5 mai 2017 10:29
À : Castonguay, Martin; Doniol-Valcroze, Thomas
Objet : TR: Appel du vendredi 5 mai concernant le TAC du maquereau
Importance : Haute

Martin, Thomas,

Pour votre info. Il se pourrait que vous soyez consultgés aujourd'hui à ce sujet...

Michel G.

Michel Gilbert, M. Sc.
Directeur / Director
Direction des sciences pélagiques et écosystémiques / Pelagic and Ecosystem Science Branch
Direction régionale des Sciences / Regional Science Directorate
Pêches et Océans Canada / Fisheries and Oceans Canada
Institut Maurice-Lamontagne / Maurice Lamontagne Institute
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http://www.qc.dfo-mpo.gc.ca/iml

Ma langue, une question de respect
My language, a matter of respect

De : de Lafontaine, Yves
Envoyé : 4 mai 2017 16:35
À : Gilbert, Michel
Objet : TR: Appel du vendredi 5 mai concernant le TAC du maquereau
Importance : Haute

Michel

Peux-tu parler à Martin et Thomas pour vérifier leur disponibilité si le DGR a des demandes.

Yves de Lafontaine

Directeur, Institut Maurice Lamontagne

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s.16(2) s.21(1)(b)

Directeur, Direction régionale des Sciences
Pêches et Océans Canada / Gouvernement du Canada
Yves.delafontaine@dfo-mpo.gc.ca Tél. : 418-775-0555 / tél. cell. :

Director, Maurice Lamontagne Institute
Director, Sciences regional directorate
Fisheries and Oceans Canada / Government of Canada
Yves.delafontaine@dfo-mpo.gc.ca Tel : 418-775-0555 / Cel. :



De : Lemire, Maryse
Envoyé : 4 mai 2017 16:27
À : Vincent, Patrick <Patrick.Vincent@dfo-mpo.gc.ca>
Cc : Gros-Louis, Denis <Denis.Gros-Louis@dfo-mpo.gc.ca>; **Boudreau, Suzie** <Suzie.Boudreau@dfo-mpo.gc.ca>; Rivierre, Antoine <Antoine.Rivierre@dfo-mpo.gc.ca>; **de Lafontaine, Yves** <Yves.deLafontaine@dfo-mpo.gc.ca>
Objet : Appel du vendredi 5 mai concernant le TAC du maquereau
Importance : Haute

Bonjour Patrick,

Tu as reçu une convocation pour un appel national demain après-midi concernant le TAC du maquereau.

Je joins quelques courriels pour ton information.

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Antoine Rivière pourrait se joindre à toi pour l'appel si tu le désires ou te rencontrer avant l'appel pour te donner plus de détails.

Maryse

Maryse Lemire

Directrice régionale de la gestion des pêches
Pêches et Océans Canada / Gouvernement du Canada
Maryse.Lemire@dfo-mpo.gc.ca / Tél.: 418-648-5783

Fisheries Management Regional Director
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Maryse.Lemire@dfo-mpo.gc.ca / Tel.: 418-648-5783



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UNCLASSIFIED
2017-045-00376
EKME #: 3766140

MEMORANDUM FOR THE MINISTER

2017 ATLANTIC MACKEREL MANAGEMENT MEASURES

(FOR DECISION)

SUMMARY OF ADVICE TO MINISTER

This memo seeks your approval of the Total Allowable Catch (TAC) for the mackerel fishery in Atlantic Canada and Quebec, and outlines steps for improved reporting and a rebuilding plan for the fishery. A map of Atlantic mackerel harvesting areas is at TAB 1.

On March 30, 2017, the Atlantic Mackerel Advisory Committee (AMAC) met to discuss the TAC levels and other key management issues for this fishery. A supplementary meeting for Indigenous groups was also held on March 28, 2017. At these meetings Science presented results of a recently completed peer-reviewed stock assessment for Mackerel in Canadian waters (TAB 2). Results from a new stock assessment model indicate that while there is some growth in the biomass, the stock continues to be in the critical zone. Stock projections are at the end of Tab 2.

Commercial harvesters and the provinces put forth recommendations to increase the total catch to 20,000t or 36,000t, which also includes undeclared catch, estimated at 6,000t per year under current monitoring. Indigenous organizations suggested a closure of the fishery while it remains in the critical zone and non-government organizations requested implementing a low TAC.

Unreported landings in bait and some commercial fisheries and unknown harvests from the recreational fishery are continuing to impact the stock assessment. AMAC members agree that monitoring and reporting of catches for this fishery must be improved. The department is actively undertaking measures to improve catch reporting for the commercial and bait fisheries in 2017 and beyond.

[redacted] The Atlantic Mackerel stock has a high probability of growth [redacted] under this harvest level over the coming year, and it strikes a balance between projected positive growth of the stock and the economic importance of the fishery.

BACKGROUND

The Atlantic Mackerel stock is a trans-boundary stock found in Canadian and United States (US) waters (map at TAB 1). Mackerel is fished in Canadian waters on a fully competitive basis, with

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an inshore/offshore split of 60%/40% respectively. There is no regional sharing arrangement.

Total reported commercial landings in Atlantic Canada have decreased significantly in recent years, from a high of 54,621t in 2005 to record low 4,145t in 2015. During the same time frame, TAC levels have followed the landings trajectory and resulted in a reduction from 36,000t in 2013 to a low of 8,000t per year over the past two years.

The 2014 stock assessment for mackerel indicated that the biomass of the stock was estimated to be at the lowest ever on record and the stock was well into the critical zone of the Precautionary Approach (PA) Framework. Unknown catches in bait and recreational fisheries and unaccounted commercial harvests have impaired the stock assessment for many years. For the 2017 stock assessment, science developed a new model which can account for undeclared catches. Results of the assessment were presented to the March 30, 2017 meeting of the Atlantic Mackerel Advisory Committee. The model shows some stock growth since 2012 and some early signs of good recruitment coming into the fishery; however, the stock remains within the critical zone.

While the new assessment model was viewed more favorably by stakeholders than the previous assessment approach, industry was of the view that it severely underestimated the overall biomass. Fishermen have reported a significant number of small fish throughout the Gulf of St. Lawrence in 2016 which could be a sign of good incoming recruitment.

The latest assessment provided a range of harvest scenarios and associated growth projections, as well as developing a Limit Reference Point for Atlantic mackerel (TAB 2). It is understood that total catches (undeclared and declared) should not inhibit continued growth with an aim of getting out of the critical zone. Declared catches (addressed by TACs) represent commercial landings and some bait catches, while undeclared catches are unreported from some commercial harvesters, bait catches as well as recreational harvests. There are currently no restrictions on the amount of catch and no closed season for recreational harvests of mackerel.

Science continues to note concerns with undeclared harvests, which could be significant given the current low biomass. Science has worked with their southern counterparts in the most recent assessment and they are working towards a Canada/US joint stock assessment for 2019.

In 2016, the commercial TAC was reached and the fishery was closed in-season for the first time ever. The TAC had never limited landings until 2016. Commercial landings averaged just over 5,000t per year in 2014 and 2015. Significant catches by the Newfoundland inshore fleet, with the majority in 3K, in early October 2016, lead to a closure the fishery. It is important to note that the appearance of mackerel in 3K is not typical and it appears periodically.

The Integrated Fisheries Management Plan indicates a priority of access to licence holders with vessels less than 65' (the inshore fleet). It also references a 60/40 split of the quota between the inshore and offshore (vessels 65') fleets. The priority of access of the mackerel fishery given to the inshore fleet was an initiative to help protect the inshore sector and traditional inshore markets and includes a consideration to allow the inshore fleet to continue to harvest even after they have 60% of the TAC landed if the >65' fleet had not harvested all of their 40%.

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There was significant negative reaction following the closure of the mackerel fishery as the inshore fleets believe that the stock is healthy and the offshore fleet (>65' large seiners) did not have an opportunity to fish in 2016 as they were just starting when the Department closed the fishery with the TAC having been reached. Harvesters in 3K indicated that there was a large stock of mackerel still in the waters in this area when the fishery closed.

At AMAC, commercial harvesters put forth recommendations to increase total catch to 20,000t or 36,000t, inclusive of undeclared catch; however, these levels do not promote growth of the stock in line with DFO's PA Framework. Indigenous groups suggested a closure of the fishery while the stock remains in the critical zone; while the Ecology Action Center and the World Wildlife Fund have requested a low total catch (declared and undeclared) of 8,000t while the stock remains in the critical zone.

In discussions with the AMAC in 2007, in the development of the Integrated Fisheries Management Plan (IFMP), inshore representatives indicated that they would like to reduce or eliminate the TAC share for the exploratory fishing in light of a proposed reduced TAC. At that time the TAC was proposed to be reduced from 75,000t to 50,000t although a TAC reduction did not occur until 2010. Also during the discussions in 2007, the majority view among AMAC members was that the quota sharing of 40% for the "exploratory mobile gear fishery" versus 60% for "traditional inshore fisheries" should be flexible, i.e. there should be allowance for the traditional inshore fisheries to exceed 60% of the overall catch. closing the fishery to all fleets which resulted in a Judicial Review (JR) of this decision by the four offshore >65' purse seine licence holders from Newfoundland and Labrador and one from New Brunswick. This JR is ongoing

STRATEGIC CONSIDERATIONS

Harvesters will not react favorably to a commercial TAC as it is far below requests from industry, particularly in NL where a 36,000t total catch was recommended. Based on migration, the fish arrives last in NL, typically in late September after other provinces have had several months of harvesting. If fish show up in both eastern and western NL this year, there may be a requirement to close the fishery late in the fall again this year.

The Department recommends a more conservative TAC given the stock is assessed as continuing to be in the critical zone and thus in line with the PA Framework, there needs to be a high probability (75-95%), of the stock growing out of the Critical zone within a reasonable timeframe. Based on Science projections, with average incoming recruitment, This catch level represents a balance between projected positive growth in the stock while recognizing the economic value of the fishery and its importance as a bait source. The increase may encourage better reporting and could encourage industry participation in a rebuilding plan for the stock. This conservative approach is also in line with the government mandate that all fisheries management decisions be supported by sound science.

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There may be some negative reaction, including from non-government organizations, to the TAC increase given the stock is assessed to be in the critical zone.

Undeclared harvests represent a challenge in the assessment and management of the fishery. In the commercial fishery, the Department is working on implementing mandatory hails of catches with some level of dockside monitoring (approximately 25%) for the fishery in the southern Gulf to eliminate the use of purchase slips a source of catch data. Increased reporting frequency in other areas will allow for a more timely and complete commercial catch numbers. The department is currently analysing options for the inclusion mackerel as a potential stock to be included under Marine Recreational Fishing Licence for Eastern Canada to establish harvest limits and improve reporting of this fishery.

With better reporting in 2017, most specifically in the Southern Gulf, this should result in reducing undeclared in the commercial fishery (of an estimated 1,000t+) and the level of undeclared catch should decline and declared catches could rise by the same amount. Therefore, a higher portion of the overall catch would be available for the commercial fishery.

In 2016, harvesters were critical of the rapid and unexpected closure of the fishery. In order to mitigate this situation next season the Department has started implementing measures to enhance monitoring and timely data collection, particularly in the Gulf and Maritimes Regions. In addition, in 2017, the department intends to hold a conference call with AMAC when 50% of established commercial TAC is reached. This call will allow the Department to consult on the inshore/offshore split of 60%/40% as well as the clause in the IFMP that consideration will be given to allow the inshore to continue fishing if the offshore fleet has not caught its allocation. This would ensure a formal consultation before contemplating any measure that would modify the 40% share of the TAC to which the greater than 65' fleet is entitled to in the IFMP. This mid-season consultation with AMAC may assist in the Department's ability to come to a settlement agreement with the >65' purse seine fleet in terms of their current JR.

Despite concerns expressed from inshore harvesters on the inshore/offshore 60%/40% sharing arrangement in 2007 when a TAC reduction from 75,000 to 50,000t was being contemplated, no fleet expressed any concern with that split at the most recent AMAC meeting even at the recent low level of TAC.

In September 2014, Atlantic mackerel was put on a priority list by the Committee on the Status of Endangered Wildlife in Canada given the rate of decline in the stock. The 2016 audit of the Commissioner of the Environment and Sustainable Development identified Mackerel as a stock in the critical zone requiring a rebuilding plan as part of IFMP. The department has received widespread interest from industry stakeholders to participate in a rebuilding plan working group for the mackerel fishery which will convene late spring/early summer 2017. The IFMP for Atlantic mackerel, which has been in effect since 2007, will be updated in advance of the 2019 AMAC meeting.

.../5

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While not discussed at the most recent AMAC, it would be prudent to consider a freeze on the issuance of new mackerel licences until this can be more fully considered, in light of a rebuilding plan, given that current capacity far exceeds the available harvest level.

SCIENCE ADVICE

A stock assessment for Atlantic Mackerel was conducted March 8-9, 2017. The current spawning stock biomass was estimated at 48,000t for 2017, lower than the Limit Reference Point of 103,000t, placing mackerel in the critical zone of the PA framework. The model estimated that unreported/undeclared catches (recreational, bait, discard mortality and a portion of the American landings) averaged approximately 6,000t in recent years, in addition to commercial landings. This means that with a commercial TAC of 8,000t, total landings, including the undeclared estimate, were approximately 14,000t in 2016. According to the assessment, mackerel spawning stock biomass has increased slightly since reaching a historical low in 2012. Science has recommended that, because the stock remains in the critical zone, total catches (declared and unreported) should be low enough to facilitate stock recovery. Science has also noted that improved data collection on unreported catches is a priority.

Modelled stock projections over a two-year assessment period (2017-2019) indicate that total landings of 16,000t (10,000t TAC and up to 6,000t undeclared catches) the mackerel spawning stock biomass would continue to increase in abundance over current levels. This corresponds to a high probability of growth, as defined in DFO's PA framework (high = 75-95%).

INTERDEPARTMENTAL CONSULTATIONS

No interdepartmental consultations were required.

INDIGENOUS CONSULTATIONS

Indigenous groups are represented as members on the AMAC. In addition, a supplementary meeting was held to permit additional consultation with indigenous groups.

EXTERNAL CONSULTATIONS

The Department consulted with representatives of the mackerel industry, including harvesters and processors, industry associations, the Ecology Action Center, the Atlantic Provinces and, Quebec.

ADVICE AND RECOMMENDATIONS TO MINISTER

It is recommended that you approve a TAC for the Atlantic Mackerel fishery for 2017 and implement a temporary freeze on the issuance of any new mackerel licences.

The Department will establish the process to review the fishery when commercial landings reach 50% of this established commercial TAC. Additionally, a Mackerel Rebuilding Plan Working Group will be convened that will focus on setting an Upper Stock Reference point as well as harvest control rules to support rebuilding this stock into the healthy zone of the PA Framework. A meeting of AMAC will occur, via conference call, in the spring of 2018 to solicit industry advice for 2018.

Media lines will be prepared in response to the release of TAC and other management measures.

.../6

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Catherine Blewett
Deputy Minister

Kevin Stringer
Associate Deputy Minister

☐ I concur with the recommendations

☐ I do not concur with the recommendations

Dominic LeBlanc
Minister

Minister's Comments:

1) Attachment: TAB 1 – Map of Mackerel Fishing Areas

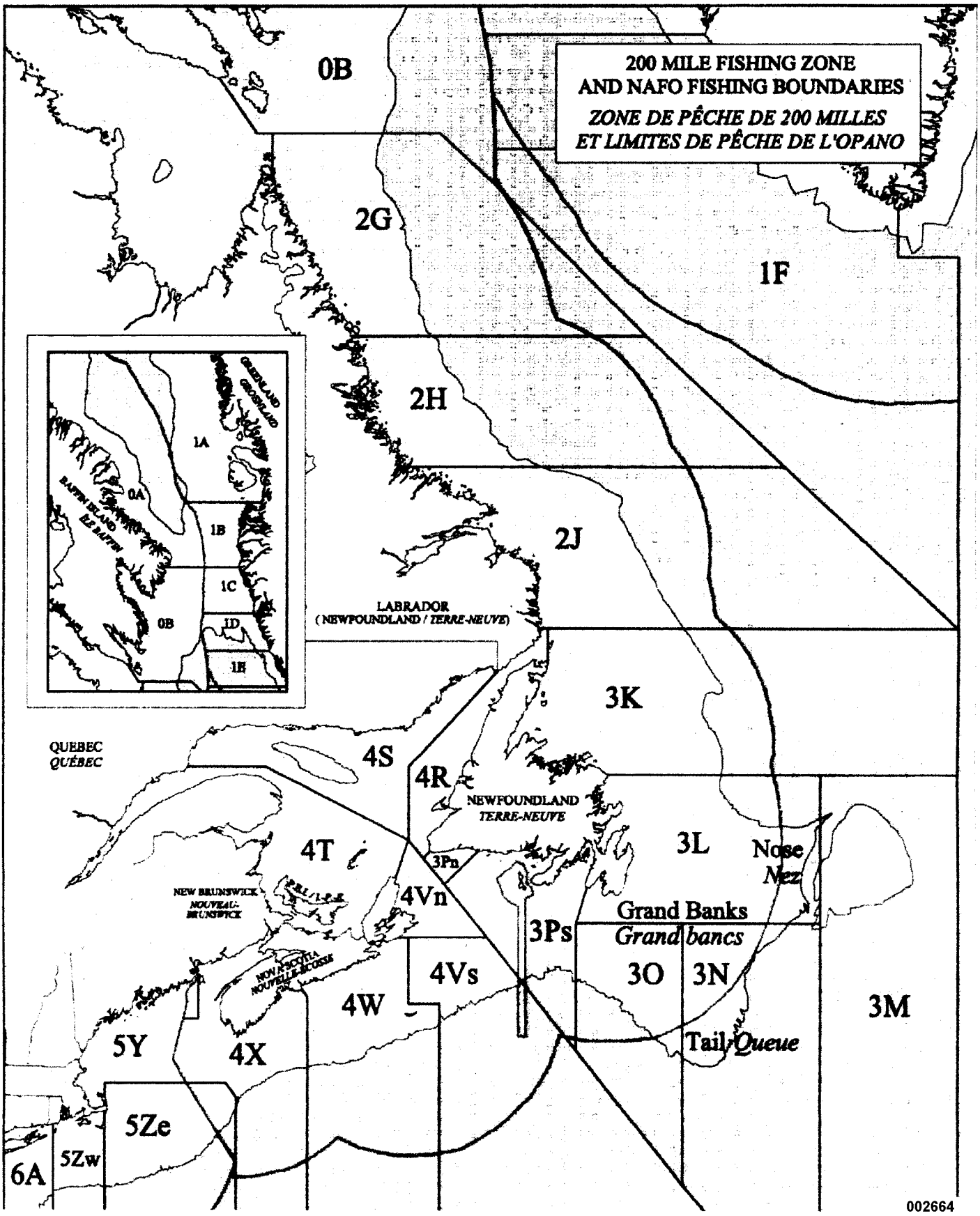
.../7

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TAB 1

NAFO



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Correspondence Routing Slip

Fiche d'acheminement de correspondance
Pêches et Océans Canada

CLASSIFICATION
GCCMS #: 2017-045-00376
EKME #: 3766140

To:
Pour: Catherine Blewett

Date:

Object: **2017 ATLANTIC MACKEREL MANAGEMENT MEASURES**
Objet:

From / De: Adam Burns A/DG FRM

Via: Philippe Morel, A/SADM, EFM,
Sylvie Lapointe, A/ADM, EFM Ops

Additional approvals:
Autre(s) approbation(s):
Trevor Swerdfager, Senior Assistant Deputy Minister, Ecosystems and Oceans Science
Jackey Richard, A/Regional Director General, Gulf Region
Patrick Vincent, Regional Director General, Quebec
Morley Knight, Regional Director General, Maritimes Region
Kevin Anderson, Regional Director General, Newfoundland & Labrador

☐ Material for the Minister
Documents pour le Ministre

☐ Your Signature
Votre signature

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Screen:
Filtre:

The Department has assessed this issue in full.

☐ It contains no reference to matters covered by the screen relating to J.D. Irving Limited.

☐ It contains matters referenced in the screen relating to J.D. Irving Limited, but in our view does not engage the screen.

☐ In our view, the screen relating to J.D. Irving Limited should be engaged.

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s.21(1)(b)

Dunn, Patricia

From: Wentzell, Doug
Sent: May-05-17 9:20 AM
To: Knight, Morley
Subject: INFO: Mackerel

Morley,

Just want to give you a heads up - understand that NHQ is likely organizing a briefing today with the RDGs on mackerel.

[redacted]

Doug

Doug Wentzell
Regional Director, Fisheries Management
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Marentette, Julie

From: Marentette, Julie
Sent: May-08-17 7:54 AM
To: Krohn, Martha
Cc: Landry, Jean
Subject: FW: Mackerel TAC memo
Attachments: ATLANTIC_MACKEREL_MANAGEMENT_MEASURES_JLJM.DOCX

Good morning,

Apologies for the delay. Please find attached my revisions to the Mackerel memo to be forwarded to EFM as soon as possible.

Thank you,
Julie Marentette

From: Landry, Jean
Sent: May 5, 2017 13:52
To: Krohn, Martha; Marentette, Julie
Cc: Vézina, Alain; White, Andrea
Subject: Mackerel TAC memo

Martha/Julie,

I did review the last version of the TAC memo recived this pm (attached). While the memo will likely change after this pm call, I think we should provide some feedback to EFM later today. You will be able to integrate my input to yours.

Jean

Jean Landry
Director , Fish Population Science
Fisheries and Oceans Canada / Government of Canada
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Fisheries and Oceans Canada | Pêches et Océans Canada

Deputy Minister | Sous-ministre

UNCLASSIFIED
2017-045-00376
EKME #: 3766140

MEMORANDUM FOR THE MINISTER

2017 ATLANTIC MACKEREL MANAGEMENT MEASURES

(FOR DECISION)

SUMMARY OF ADVICE TO MINISTER

This memo seeks your approval of the Total Allowable Catch (TAC) for the mackerel fishery in Atlantic Canada and Quebec, and outlines steps for improved reporting and a rebuilding plan for the fishery. A map of Atlantic mackerel harvesting areas is at TAB 1.

On March 30, 2017, the Atlantic Mackerel Advisory Committee (AMAC) met to discuss the TAC levels and other key management issues for this fishery. A supplementary meeting for Indigenous groups was also held on March 28, 2017. At these meetings Science presented results of a recently completed peer-reviewed stock assessment for Mackerel in Canadian waters (TAB 2). Results from a new stock assessment model indicate that while there is some growth in the biomass, the stock continues to be in the critical zone. Stock projections are at the end of Tab 2.

Commercial harvesters and the provinces put forth recommendations to increase the total catch to 20,000t or 36,000t, which also includes undeclared catch, estimated at 6,000t per year under current monitoring context. Indigenous organizations suggested a closure of the fishery while it remains in the critical zone and non-government organizations requested implementing a much lower TAC of 8,000t (including undeclared catch) while the stock remains in the critical zone. ~~a low TAC~~.

Comment [LJ1]: To have a balanced memo, it is important to put this type of info (from both sides) in the summary.

Unreported landings in bait and some commercial fisheries and unknown harvests from the recreational fishery are continuing to impact the stock assessment. AMAC members agree that monitoring and reporting of catches for this fishery must be improved. The department is actively undertaking measures to improve catch reporting for the commercial and bait fisheries in 2017 and beyond.

[redacted] The Atlantic Mackerel stock has a high probability of growth [redacted] under this harvest level over the coming years, and it strikes a balance between projected positive growth of the stock and the economic importance of the fishery.

BACKGROUND

The Atlantic Mackerel stock is a trans-boundary stock found in Canadian and United States (US)

Canada

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waters (map at TAB 1). Mackerel is fished in Canadian waters on a fully competitive basis, with an inshore/offshore split of 60%/40% respectively. There is no regional sharing arrangement.

Total reported commercial landings in Atlantic Canada have decreased significantly in recent years, from a high of 54,621t in 2005 to record low 4,145t in 2015. During the same time frame, TAC levels have followed the landings trajectory and resulted in a reduction from 36,000t in 2013 to a low of 8,000t per year over the past two years.

The 2014 stock assessment for mackerel indicated that the biomass of the stock was estimated to be at the lowest ever on record and the stock was well into the critical zone of the Precautionary Approach (PA) Framework. Unknown catches in bait and recreational fisheries and unaccounted commercial harvests have impaired the stock assessment for many years. For the 2017 stock assessment, science developed a new model which can account for undeclared catches. Results of the assessment were presented to the March 30, 2017 meeting of the Atlantic Mackerel Advisory Committee. The model shows some stock growth since 2012 and some early signs of good recruitment coming into the fishery.; ~~h~~However, this good recruitment still has to be confirmed and the ~~e~~-stock remains low within the critical zone.

While the new assessment model was viewed more favorably by stakeholders than the previous assessment approach, industry was of the view that it severely underestimated the overall biomass. Fishermen have reported a significant number of small fish throughout the Gulf of St. Lawrence in 2016 which could be a sign of good incoming recruitment.

The latest assessment provided a range of harvest scenarios and associated growth projections, as well as developing a Limit Reference Point for Atlantic mackerel (TAB 2). It is understood that total catches (undeclared and declared) should not inhibit continued growth with an aim of getting out of the critical zone. Declared catches (addressed by TACs) represent commercial landings and some bait catches, while undeclared catches are unreported from some commercial harvesters, bait catches as well as recreational harvests. There are currently no restrictions on the amount of catch and no closed season for recreational harvests of mackerel.

Science continues to note concerns with undeclared harvests, which could be significant given the current low biomass. Science has worked with their southern counterparts in the most recent assessment and they are working towards a Canada/US joint stock assessment for 2019.

In 2016, the commercial TAC was reached and the fishery was closed in-season for the first time ever. The TAC had never limited landings until 2016. Commercial landings averaged just over 5,000t per year in 2014 and 2015. Significant catches by the Newfoundland inshore fleet, with the majority in 3K, in early October 2016, lead to a closure the fishery. It is important to note that the appearance of mackerel in 3K is not typical and it appears periodically.

The Integrated Fisheries Management Plan indicates a priority of access to licence holders with vessels less than 65' (the inshore fleet). It also references a 60/40 split of the quota between the inshore and offshore (vessels 65') fleets. The priority of access ~~of~~to the mackerel fishery given to the inshore fleet was an initiative to help protect the inshore sector and traditional inshore markets and includes a consideration to allow the inshore fleet to continue to harvest even after

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they have 60% of the TAC landed if the >65' fleet had not harvested all of their 40%.

There was significant negative reaction following the closure of the mackerel fishery as the inshore fleets believe that the stock is healthy and the offshore fleet (>65' large seiners) did not have an opportunity to fish in 2016 as they were just starting when the Department closed the fishery with the TAC having been reached. Harvesters in 3K indicated that there was a large stock of mackerel still in the waters in this area when the fishery closed.

At AMAC, commercial harvesters put forth recommendations to increase total catch to 20,000t or 36,000t, inclusive of undeclared catch; however, these levels do not promote growth of the stock in line with DFO's PA Framework. Indigenous groups suggested a closure of the fishery while the stock remains in the critical zone; while the Ecology Action Center and the World Wildlife Fund have requested a low total catch (declared and undeclared) of 8,000t while the stock remains in the critical zone.

In discussions with the AMAC in 2007, in the development of the Integrated Fisheries Management Plan (IFMP), inshore representatives indicated that they would like to reduce or eliminate the TAC share for the exploratory fishing in light of a proposed reduced TAC. At that time the TAC was proposed to be reduced from 75,000t to 50,000t although a TAC reduction did not occur until 2010. Also during the discussions in 2007, the majority view among AMAC members was that the quota sharing of 40% for the "exploratory mobile gear fishery" versus 60% for "traditional inshore fisheries" should be flexible, i.e. there should be allowance for the traditional inshore fisheries to exceed 60% of the overall catch. closing the fishery to all fleets which resulted in a Judicial Review (JR) of this decision by the four offshore >65' purse seine licence holders from Newfoundland and Labrador and one from New Brunswick. This JR is ongoing

STRATEGIC CONSIDERATIONS

Harvesters will not react favorably to a commercial TAC as it is far below requests from industry, particularly in NL where a 36,000t total catch was recommended. Based on migration, the fish arrives last in NL, typically in late September after other provinces have had several months of harvesting. If fish show up in ~~both eastern and western NL~~3K again this year (noted above as atypical), there may be a requirement to close the fishery late in the fall again this year.

Comment [LJ3]: Not clear to me

The Department recommends a more conservative TAC given the stock is assessed as continuing to be in the critical zone and thus in line with the PA Framework, there needs to be a high probability (75-95%), of the stock growing out of the Critical zone within a reasonable timeframe. Based on Science projections, with average incoming recruitment, This catch level represents a balance between projected positive growth in the stock while recognizing the economic value of the fishery and its importance as a bait source. The increase may encourage better reporting and could encourage industry participation in a rebuilding plan for the stock. This conservative

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approach is also in line with the government mandate that all fisheries management decisions be supported by sound science.

We should expect a ~~There may be some~~ negative reaction from ~~aboriginals~~Indigenous groups and ~~, including from~~ non-government organizations~~, to the TAC increase~~ given that we would be increasinge the TAC [redacted] for athe stock ~~is assessed to be~~ in the critical zone. [redacted]

Undeclared harvests represent a challenge in the assessment and management of the fishery. In the commercial fishery, the Department is working on implementing mandatory hails of catches with some level of dockside monitoring (approximately 25%) for the fishery in the southern Gulf to eliminate the use of purchase slips a source of catch data. Increased reporting frequency in other areas will allow for a more timely and complete commercial catch numbers. The department is currently analysing options for the inclusion mackerel as a potential stock to be included under Marine Recreational Fishing Licence for Eastern Canada to establish harvest limits and improve reporting of this fishery. [redacted]

[redacted] With better reporting in 2017, most specifically in the Southern Gulf, this should result in reducing undeclared in the commercial fishery (of an estimated 1,000t+) and the level of undeclared catch should decline and declared catches could rise by the same amount. Therefore, a higher portion of the overall catch would be available for the commercial fishery.

In 2016, harvesters were critical of the rapid and unexpected closure of the fishery. In order to mitigate this situation next season the Department has started implementing measures to enhance monitoring and timely data collection, particularly in the Gulf and Maritimes Regions. In addition, in 2017, the department intends to hold a conference call with AMAC when 50% of established commercial TAC is reached. This call will allow the Department to consult on the inshore/offshore split of 60%/40% as well as the clause in the IFMP that consideration will be given to allow the inshore to continue fishing if the offshore fleet has not caught its allocation. This would ensure a formal consultation before contemplating any measure that would modify the 40% share of the TAC to which the greater than 65' fleet is entitled to in the IFMP. This mid-season consultation with AMAC may assist in the Department's ability to come to a settlement agreement with the >65' purse seine fleet in terms of their current JR.

Despite concerns expressed from inshore harvesters on the inshore/offshore 60%/40% sharing arrangement in 2007 when a TAC reduction from 75,000 to 50,000t was being contemplated, no fleet expressed any concern with that split at the most recent AMAC meeting even at the recent low level of TAC.

In September 2014, Atlantic mackerel was put on a priority list by the Committee on the Status of Endangered Wildlife in Canada given the rate of decline in the stock. The 2016 audit of the Commissioner of the Environment and Sustainable Development identified Mackerel as a stock in the critical zone requiring a rebuilding plan as part of IFMP. The department has received widespread interest from industry stakeholders to participate in a rebuilding plan working group for the mackerel fishery which will convene late spring/early summer 2017. The IFMP for

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Atlantic mackerel, which has been in effect since 2007, will be updated in advance of the 2019 AMAC meeting.

While not discussed at the most recent AMAC, it would be prudent to consider a freeze on the issuance of new mackerel licences until this can be more fully considered, in light of a rebuilding plan, given that current capacity far exceeds the available harvest level.

SCIENCE ADVICE

A stock assessment for Atlantic Mackerel was conducted March 8-9, 2017. The current spawning stock biomass was estimated at 48,000t for 2017, lower than the Limit Reference Point of 103,000t, placing mackerel in the critical zone of the PA framework. The model estimated that unreported/undeclared catches (recreational, bait, discard mortality and a portion of the American landings) averaged approximately 6,000t in recent years, in addition to commercial landings. This means that with a commercial TAC of 8,000t, total landings, including the undeclared estimate, were approximately 14,000t in 2016. According to the assessment, mackerel spawning stock biomass has increased slightly since reaching a historical low in 2012. Science has recommended that, because the stock remains in the critical zone, total catches (declared and unreported) should be low enough to facilitate stock recovery. Science has also noted that improved data collection on unreported catches is a priority.

Comment [LJ5]: Martha : are we good with this part?

Comment [JM6]: This sentence and the next one came from the bullets of the SAR.

Modelled stock projections over a two-year assessment period (2017-2019) indicate that total landings of 16,000t (10,000t TAC and up to 6,000t undeclared catches) [redacted] the mackerel spawning stock biomass would continue to increase in abundance over current levels. This corresponds to a high probability of growth, as defined in DFO's PA framework (high = 75-95%). [redacted]

INTERDEPARTMENTAL CONSULTATIONS

No interdepartmental consultations were required.

INDIGENOUS CONSULTATIONS

Indigenous groups are represented as members on the AMAC. In addition, a supplementary meeting was held to permit additional consultation with indigenous groups.

EXTERNAL CONSULTATIONS

The Department consulted with representatives of the mackerel industry, including harvesters and processors, industry associations, the Ecology Action Center, the Atlantic Provinces and, Quebec.

ADVICE AND RECOMMENDATIONS TO MINISTER

Comment [LJ8]: We should reiterate in the last section the importance of implementing successfully the improvements to the monitoring of catches.

It is recommended that you approve a TAC [redacted] for the Atlantic Mackerel fishery for 2017 and implement a temporary freeze on the issuance of any new mackerel licences.

The Department will establish the process to review the fishery when commercial landings reach 50% [redacted] of this established commercial TAC. Additionally, a Mackerel Rebuilding Plan Working Group will be convened that will focus on setting an Upper Stock Reference point as well as harvest control rules to support rebuilding this stock into the healthy zone of the PA

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Framework. A meeting of AMAC will occur, via conference call, in the spring of 2018 to solicit industry advice for 2018.

Media lines will be prepared in response to the release of TAC and other management measures.

Catherine Blewett
Deputy Minister

Kevin Stringer
Associate Deputy Minister

☐ I concur with the recommendations

☐ I do not concur with the recommendations

Dominic LeBlanc
Minister

Minister's Comments:

1) Attachment: TAB 1 – Map of Mackerel Fishing Areas

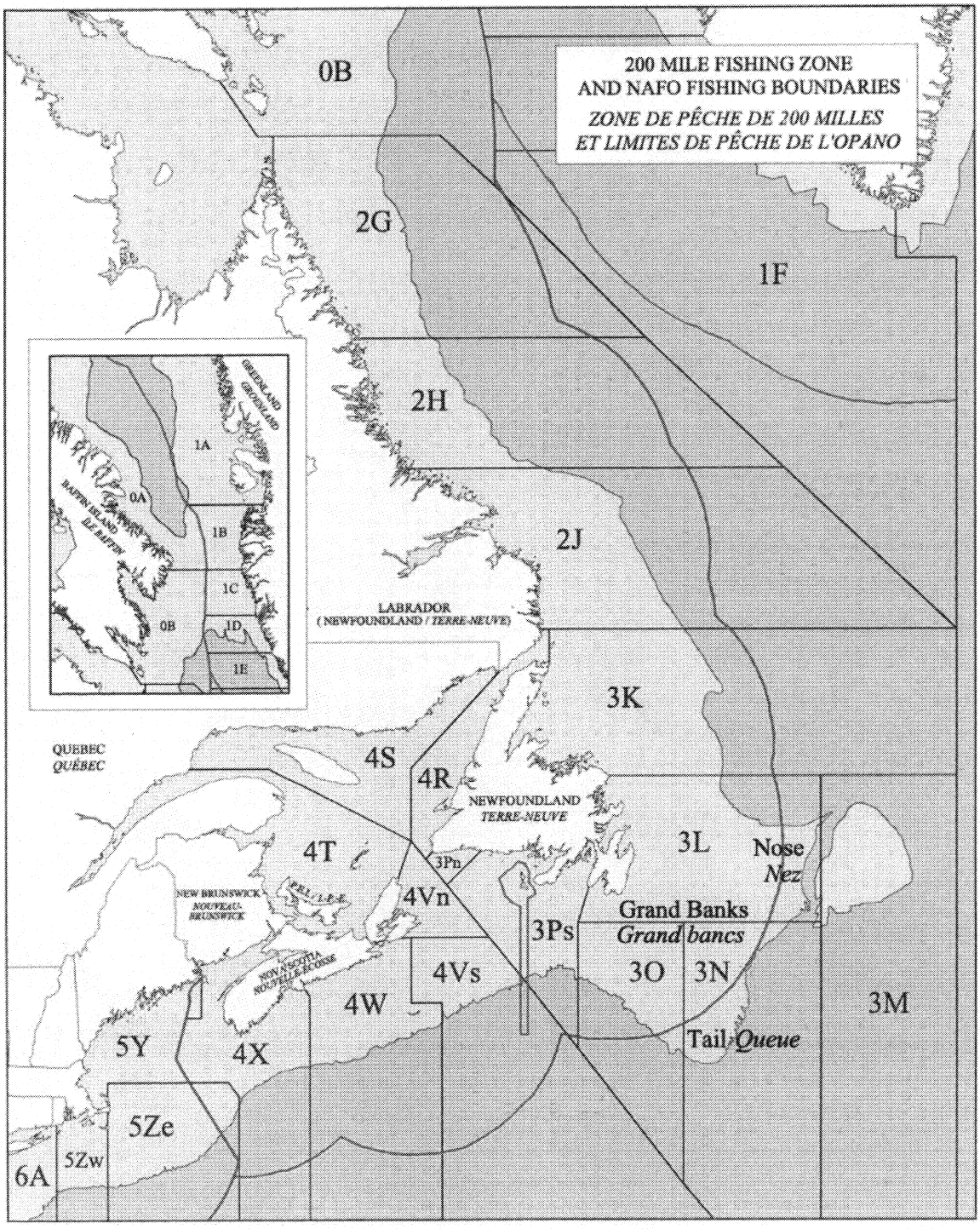
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TAB 1

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Marentette, Julie

From: Landry, Jean
Sent: May-08-17 6:03 PM
To: Krohn, Martha; Marentette, Julie
Subject: TR: Mackerel TAC memo
Attachments: ATLANTIC_MACKEREL_MANAGEMENT_MEASURES_FPS.docx

Follow Up Flag: Flag for follow up
Flag Status: Completed

Good job. I just corrected a couple of very minor typos. I am good with it. Julie please send to EFM first thing tomorrow indicating that this has been validated at the level of FPS Director (not higher). Thanks so much to both of you.

Jean

Jean Landry

Director , Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Jean.Landry@dfo-mpo.gc.ca / Tel: 613-993-0029

Directeur, Sciences halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Jean.Landry@dfo-mpo.gc.ca / Tél. : 613-993-0029

Government of Canada Gouvernement du Canada

Canada

De : Krohn, Martha
Envoyé : 8 mai 2017 15:53
À : Marentette, Julie <Julie.Marentette@dfo-mpo.gc.ca>
Cc : Landry, Jean <Jean.Landry@dfo-mpo.gc.ca>
Objet : RE: Mackerel TAC memo

Hi Julie,
Please find attached suggested revisions on top of yours and Jean's.
Jean has not seen this version, and may want to add over but will see it in approvals either way.
As discussed, the lengthy section on the new model was requested specifically by MINO. It is added to the background as it seemed to fit better there than in Science advice because there was already a sentence on the new model there.
Thanks,
Martha

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Fisheries and Oceans Canada | Pêches et Océans Canada

Deputy Minister | Sous-ministre

UNCLASSIFIED
2017-045-00376
EKME #: 3766140

MEMORANDUM FOR THE MINISTER

2017 ATLANTIC MACKEREL MANAGEMENT MEASURES

(FOR DECISION)

SUMMARY OF ADVICE TO MINISTER

This memo seeks your approval of the Total Allowable Catch (TAC) for the mackerel fishery in Atlantic Canada and Quebec, and outlines steps for improved reporting and a rebuilding plan for the fishery. A map of Atlantic mackerel harvesting areas is at TAB 1.

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Commercial harvesters and the provinces put forth recommendations to increase the total catch to 20,000t or 36,000t, which also includes undeclared catch, estimated at 6,000t per year under current monitoring context. Indigenous organizations suggested a closure of the fishery while it remains in the critical zone and non-government organizations requested implementing a much lower TAC of 8,000t (including undeclared catch) while the stock remains in the critical zone. ~~a low TAC~~.

Comment [LJ1]: To have a balanced memo, it is important to put this type of info (from both sides) in the summary.

Unreported landings in bait and some commercial fisheries and unknown harvests from the recreational fishery are continuing to impact the stock assessment. AMAC members agree that monitoring and reporting of catches for this fishery must be improved. The department is actively undertaking measures to improve catch reporting for the commercial and bait fisheries in 2017 and beyond.

[redacted]

[redacted] Assuming that planned additional monitoring efforts will reduce unreported catch, t~~T~~he Atlantic Mackerel stock has a high probability of growth [redacted] under this harvest level over the coming years, and it strikes a balance between projected positive growth of the stock and the economic importance of the fishery.

BACKGROUND

Canada

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The Atlantic Mackerel stock is a trans-boundary stock found in Canadian and United States (US) waters (map at TAB 1). Mackerel is fished in Canadian waters on a fully competitive basis, with an inshore/offshore split of 60%/40% respectively. There is no regional sharing arrangement.

Total reported commercial landings in Atlantic Canada have decreased significantly in recent years, from a high of 54,621t in 2005 to record low 4,145t in 2015. During the same time frame, TAC levels have followed the landings trajectory and resulted in a reduction from 36,000t in 2013 to a low of 8,000t per year over the past two years.

The 2014 stock assessment for mackerel indicated that the biomass of the stock was estimated to be at the lowest ever on record and the stock was well into the critical zone of the Precautionary Approach (PA) Framework.

Unknown catches in bait and recreational fisheries and unaccounted commercial harvests have impaired the stock assessment for many years. This underestimation of catch resulted in an underestimation of stock size and recommended harvest levels in the last assessment (2014). For the 2017 stock assessment, science developed a new model which can account for undeclared catches.

This new model was informed by an internet survey and literature review of past bait and recreational use. Using these rough estimates, the model was able to estimate a realistic estimate of unreported catch, and produced ten times higher biomass estimates than the previous model. The same strong pattern about the stock is still apparent and the relative status of the stock is the same, i.e. lowest levels in the time series were in 2012, although a small increase in biomass has been seen since 2012. There are some early signs of good recruitment coming into the fishery, however, this good recruitment still has to be confirmed and the stock remains low within the critical zone.

Results of the assessment were presented to the March 30, 2017 meeting of the Atlantic Mackerel Advisory Committee. ~~The model shows some stock growth since 2012 and some early signs of good recruitment coming into the fishery.; hH~~However, ~~this~~ this good recruitment ~~still has to be confirmed and the~~ stock remains ~~low~~ within the critical zone.

While the new assessment model was viewed more favorably by stakeholders than the previous assessment approach, industry was of the view that it severely underestimated the overall biomass. Fishermen have reported a significant number of small fish throughout the Gulf of St. Lawrence in 2016 which could be a sign of good incoming recruitment.

The latest assessment provided a range of harvest scenarios and associated growth projections, as well as developing a Limit Reference Point for Atlantic mackerel (TAB 2). It is understood that total catches (undeclared and declared) should not inhibit continued growth with an aim of getting out of the critical zone. Declared catches (addressed by TACs) represent commercial landings and some bait catches, while undeclared catches are unreported from some commercial harvesters, bait catches as well as recreational harvests. There are currently no restrictions on the amount of catch and no closed season for recreational harvests of mackerel.

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Science continues to note concerns with undeclared harvests, which could be significant given the current low biomass. Science has worked with their southern counterparts in the most recent assessment and they are working towards a Canada/US joint stock assessment for 2019.

In 2016, the commercial TAC was reached and the fishery was closed in-season for the first time ever. The TAC had never limited landings until 2016. Commercial landings averaged just over 5,000t per year in 2014 and 2015. Significant catches by the Newfoundland inshore fleet, with the majority in 3K, in early October 2016, lead to a closure the fishery. It is important to note that the appearance of mackerel in 3K is not typical and it appears periodically.

The Integrated Fisheries Management Plan indicates a priority of access to licence holders with vessels less than 65' (the inshore fleet). It also references a 60/40 split of the quota between the inshore and offshore (vessels 65') fleets. The priority of access ~~of~~to the mackerel fishery given to the inshore fleet was an initiative to help protect the inshore sector and traditional inshore markets and includes a consideration to allow the inshore fleet to continue to harvest even after they have 60% of the TAC landed if the >65' fleet had not harvested all of their 40%.

There was significant negative reaction following the closure of the mackerel fishery as the inshore fleets believe that the stock is healthy and the offshore fleet (>65' large seiners) did not have an opportunity to fish in 2016 as they were just starting when the Department closed the fishery with the TAC having been reached. Harvesters in 3K indicated that there was a large stock of mackerel still in the waters in this area when the fishery closed.

At AMAC, commercial harvesters put forth recommendations to increase total catch to 20,000t or 36,000t, inclusive of undeclared catch; however, these levels do not promote growth of the stock in line with DFO's PA Framework. Indigenous groups suggested a closure of the fishery while the stock remains in the critical zone; while the Ecology Action Center and the World Wildlife Fund have requested a ~~low~~ significant reduction in total catch (declared and undeclared) to~~of~~ 8,000t while the stock remains in the critical zone.

In discussions with the AMAC in 2007, in the development of the Integrated Fisheries Management Plan (IFMP), inshore representatives indicated that they would like to reduce or eliminate the TAC share for the exploratory fishing in light of a proposed reduced TAC. At that time the TAC was proposed to be reduced from 75,000t to 50,000t although a TAC reduction did not occur until 2010. Also during the discussions in 2007, the majority view among AMAC members was that the quota sharing of 40% for the "exploratory mobile gear fishery" versus 60% for "traditional inshore fisheries" should be flexible, i.e. there should be allowance for the traditional inshore fisheries to exceed 60% of the overall catch. closing the fishery to all fleets which resulted in a Judicial Review (JR) of this decision by the four offshore >65' purse seine licence holders from Newfoundland and Labrador and one from New Brunswick. This JR is ongoing

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STRATEGIC CONSIDERATIONS

Harvesters will not react favorably to a commercial TAC [redacted] as it is far below requests from industry, particularly in NL where a 36,000t total catch was recommended. Based on migration, the fish arrives last in NL, typically in late September after other provinces have had several months of harvesting. If fish show up in ~~both eastern and western NL~~3K again this year (noted above as atypical), there may be a requirement to close the fishery late in the fall again this year (i.e. increased fish in 3K could result in high catch rates and early fishery closure).

Comment [LJ3]: Not clear to me.

The Department recommends a more conservative TAC than what was recommended by industry members given the stock is ~~assessed as continuing to be~~ in the critical zone, ~~-~~and thus in line with the PA Framework, there needs to be a high probability (75-95%), of the stock growing out of the Critical zone within a reasonable timeframe. Based on Science projections, with average incoming recruitment, [redacted] assuming that planned increases in catch monitoring are effective at reducing undeclared catch levels.~~-~~ This catch level represents a balance between projected positive growth in the stock while recognizing the economic value of the fishery and its importance as a bait source. The increase may encourage better reporting and could encourage industry participation in a rebuilding plan for the stock. ~~This conservative approach is also in line with the government mandate that all fisheries management decisions be supported by sound science~~.

[redacted]

We should expect a ~~There may be some~~ negative reaction from ~~aboriginals~~Indigenous groups and ~~, including from~~ non-government organizations~~, to the TAC increase~~ given that we would be increasinge the TAC [redacted] ~~or athe~~ stock ~~is assessed to be~~ in the critical zone, where our PA policy say that removals should be kept at the lowest possible level.~~-~~

[redacted]

Undeclared harvests represent a challenge in the assessment and management of the fishery. In the commercial fishery, the Department is working on implementing mandatory hails of catches with some level of dockside monitoring (approximately 25%) for the fishery in the southern Gulf to eliminate the use of purchase slips a source of catch data. Increased reporting frequency in other areas will allow for a more timely and complete commercial catch numbers. The department is currently analysing options for the inclusion of mackerel as a potential stock to be included under Marine Recreational Fishing Licence for Eastern Canada to establish recreational harvest limits and improve reporting of this fishery. [redacted]

[redacted] With better reporting in 2017, most specifically in the Southern Gulf, this should result in reducing undeclared in the commercial fishery (of an estimated 1,000t+) and the level of undeclared catch should decline and declared catches could rise by the same amount. Therefore, a higher portion of the overall catch would be available for the commercial fishery.

In 2016, harvesters were critical of the rapid and unexpected closure of the fishery. In order to mitigate this situation next season the Department has started implementing measures to enhance monitoring and timely data collection, particularly in the Gulf and Maritimes Regions. In addition, in 2017, the department intends to hold a conference call with AMAC when 50% of established commercial TAC is reached. This call will allow the Department to consult on the

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inshore/offshore split of 60%/40% as well as the clause in the IFMP that consideration will be given to allow the inshore to continue fishing if the offshore fleet has not caught its allocation. This would ensure a formal consultation before contemplating any measure that would modify the 40% share of the TAC to which the greater than 65' fleet is entitled to in the IFMP. This mid-season consultation with AMAC may assist in the Department's ability to come to a settlement agreement with the >65' purse seine fleet in terms of their current JR.

Despite concerns expressed from inshore harvesters on the inshore/offshore 60%/40% sharing arrangement in 2007 when a TAC reduction from 75,000 to 50,000t was being contemplated, no fleet expressed any concern with that split at the most recent AMAC meeting even at the recent low level of TAC.

In September 2014, Atlantic mackerel was put on a priority list by the Committee on the Status of Endangered Wildlife in Canada given the rate of decline in the stock. The 2016 audit of the Commissioner of the Environment and Sustainable Development identified Mackerel as a stock in the critical zone requiring a rebuilding plan as part of IFMP. The department has received widespread interest from industry stakeholders to participate in a rebuilding plan working group for the mackerel fishery which will convene late spring/early summer 2017. The IFMP for Atlantic mackerel, which has been in effect since 2007, will be updated in advance of the 2019 AMAC meeting.

While not discussed at the most recent AMAC, it would be prudent to consider a freeze on the issuance of new mackerel licences until this can be more fully considered, in light of a rebuilding plan, given that current capacity far exceeds the available harvest level.

SCIENCE ADVICE

A stock assessment for Atlantic Mackerel was conducted March 8-9, 2017. The current spawning stock biomass was estimated at 48,000t for 2017, lower than the Limit Reference Point of 103,000t, placing mackerel in the critical zone of the PA framework. The model estimated that unreported/undeclared catches (recreational, bait, discard mortality and a portion of the American landings) averaged approximately 6,000t in recent years, in addition to commercial landings. This means that with a commercial TAC of 8,000t, total landings, including the undeclared estimate, were approximately 14,000t in 2016. According to the assessment, mackerel spawning stock biomass has increased slightly since reaching a historical low in 2012. Science has recommended that, because the stock remains in the critical zone, total catches (declared and unreported) should be low enough to facilitate stock recovery. Science has also noted that improved data collection on unreported catches is a priority.

Modelled stock projections over a two-year assessment period (2017-2019) indicate that total landings of 16,000t (10,000t TAC and up to 6,000t undeclared catches) the mackerel spawning stock biomass would continue to increase in abundance over current levels. ~~This corresponds to a high probability of growth, as defined in DFO's PA framework (high = 75-95%).~~

INTERDEPARTMENTAL CONSULTATIONS

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No interdepartmental consultations were required.

INDIGENOUS CONSULTATIONS

Indigenous groups are represented as members on the AMAC. In addition, a supplementary meeting was held to permit additional consultation with indigenous groups.

EXTERNAL CONSULTATIONS

The Department consulted with representatives of the mackerel industry, including harvesters and processors, industry associations, the Ecology Action Center, the Atlantic Provinces and, Quebec.

ADVICE AND RECOMMENDATIONS TO MINISTER

It is recommended that you approve a TAC [redacted] for the Atlantic Mackerel fishery for 2017 and implement a temporary freeze on the issuance of any new mackerel licences.

Comment [LJ8]: We should reiterate in the last section the importance of implementing successfully the improvements to the monitoring of catches.

The Department will establish the process to review the fishery when commercial landings reach 50% [redacted] of this established commercial TAC. Additionally, a Mackerel Rebuilding Plan Working Group will be convened that will focus on setting an Upper Stock Reference point as well as harvest control rules to support rebuilding this stock into the healthy zone of the PA Framework. A meeting of AMAC will occur, via conference call, in the spring of 2018 to solicit industry advice for 2018.

Media lines will be prepared in response to the release of TAC and other management measures.

Catherine Blewett
Deputy Minister

Kevin Stringer
Associate Deputy Minister

☐ I concur with the recommendations

☐ I do not concur with the recommendations

Dominic LeBlanc
Minister

Minister's Comments:

1) Attachment: TAB 1 – Map of Mackerel Fishing Areas

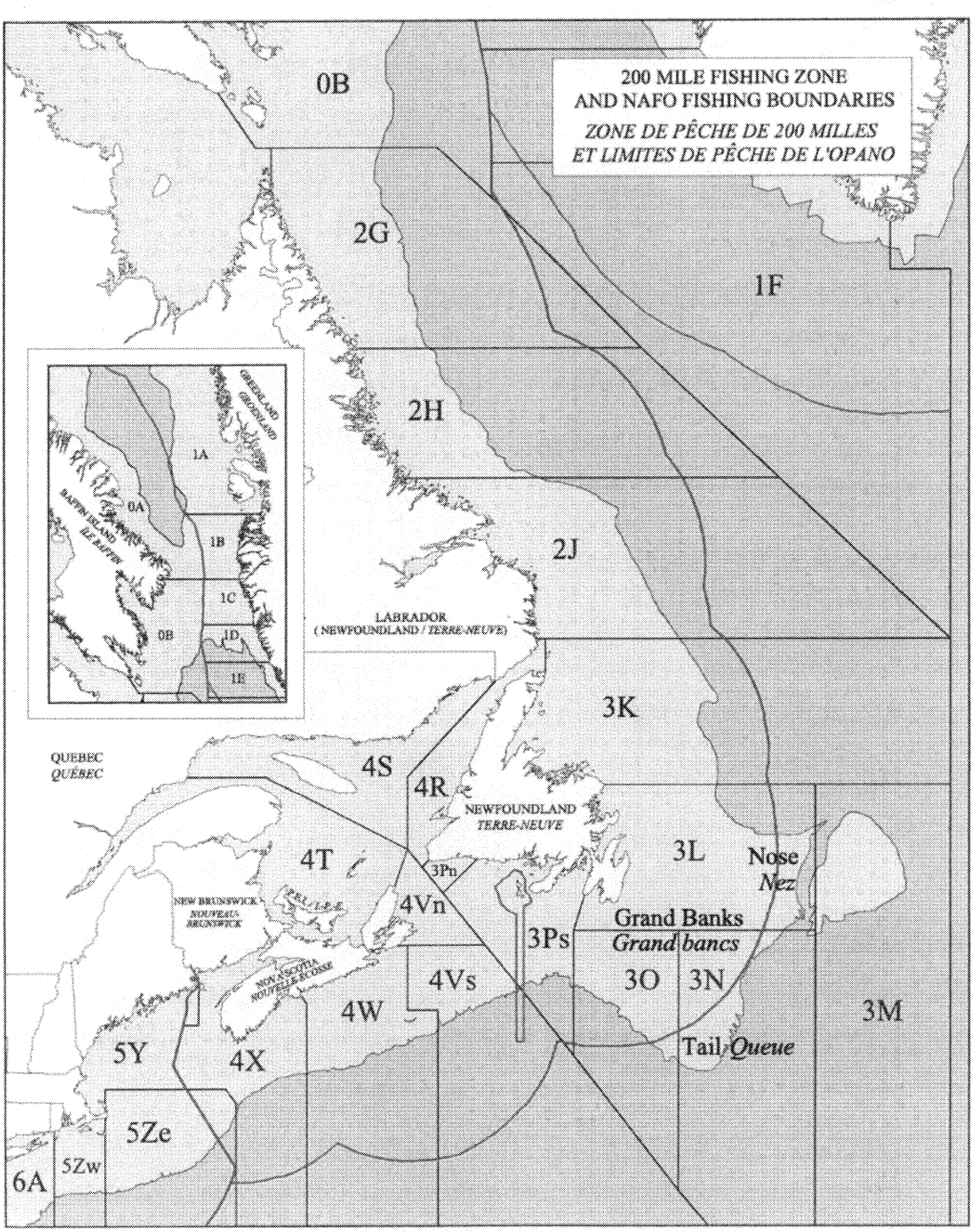
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TAB 1

NAFO



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s.21(1)(b)

Cormier, Mélanie

De: Boudreau, Suzie
Envoyé: 8 mai 2017 17:11
À: Lemire, Maryse
Cc: Rivierre, Antoine; Gros-Louis, Denis
Objet: Memo Maquereau - vendredi 5 mai
Pièces jointes: MECTS-#3766140-v7-2017_ATLANTIC_MACKEREL_MANAGEMENT_MEASURES.DOCX

Pour tes dossiers
Résumé des discussions sur le memo du Maquereau :

- [redacted]
  - Stock dans la zone critique
- Golfe justifie [redacted] par les nouvelles mesures de gestion mises en œuvre (appel d'entrée + vérification à quai)
- Cependant nous estimons que des mesures plus sévères seraient requises ou une intention de mettre en œuvre le journal de bord d'ici 1-2 ans. Les données sont manquantes pour la pêche avec appât et la pêche récréative.
- Maritimes et sciences sont du même avis que nous.
- Sciences mentionnent que nous sous-estimons la quantité non déclarée pour la pêche récréative (maquereau).
- Sciences indiquent selon la pêche aux homards (stable) l'estimation de la pêche pour appât – maquereau devrait être stable.
- Suivi prévu mardi matin avec Kevin Stringer.

Suivi QC – voir avec les pêcheurs de la CN si c'est possible d'intégrer l'appel d'entrée ?

Pages 2686 to / à 2693

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Fisheries and Oceans Canada

Direction des Sciences
Région du Québec
Direction des Sciences
Pélagiques et écosystémiques

Science Branch
Quebec Region
Pelagic and Ecosystem
Science Branch

Classif. sécurité/Security

NOTE DE SERVICE / MEMORANDUM **Le 8 mai 2017**

À: TO: Yves de Lafontaine
Directeur régional, Sciences
MPO - IML

Votre réf./Your ref.

Notre réf./Our ref.

DE: FROM: Michel Gilbert
Directeur
Direction des sciences pélagiques et écosystémiques

OBJET: SUBJECT: **Approbation de l'avis scientifique 2017/xxx « Évaluation du stock de maquereau bleu du nord-ouest de l'Atlantique (sous-régions 3 et 4) en 2016»**

Vous trouverez ci-joint pour votre approbation, l'avis scientifique « Évaluation du stock de maquereau bleu du nord-ouest de l'Atlantique (sous-régions 3 et 4) en 2016». Cet avis a été préparé à la suite de la revue régionale d'examen par les pairs tenue à Mont-Joli les 8 et 9 mars 2017.

Michel Gilbert

p. j.(1)

c.c. Charley Cyr

J'approuve ce document pour publication

Yves de Lafontaine — 16 mai 2017 Date

Canada

Institut Maurice-Lamontagne / Maurice Lamontagne Institute
850, route de la Mer, Mont-Joli (Québec) G5H 3Z4
Tél.: (418) 775-0604 Fax: (418) 775-0717 Internet : michel.gilbert@dfo-mpo.gc.ca

Document available at: http://www.dfo-mpo.gc.ca/csas-sccs/Publications/SAR-AS/2017/2017_034-fra.pdf

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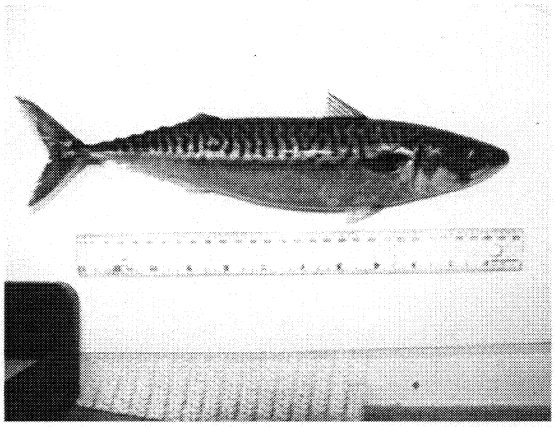
Pêches et Océans Canada | Fisheries and Oceans Canada

Sciences des écosystèmes et des océans | Ecosystems and Oceans Science

Secrétariat canadien de consultation scientifique

Région du Québec | **Avis scientifique 2017/034**

ÉVALUATION DU STOCK DE MAQUEREAU BLEU DU NORD-OUEST DE L'ATLANTIQUE (SOUS-RÉGIONS 3 ET 4) EN 2016



(Courtoisie: M. Claude Nozères)



Figure 1. Distribution (←) du maquereau (Scomber scombrus L.) dans le nord-ouest de l'Atlantique.

Contexte :

Le maquereau bleu (Scomber scombrus L.) fréquente les eaux de l'Atlantique Nord-Ouest de la Caroline du Nord à Terre-Neuve (Figure 1). Au printemps et à l'été, le maquereau fréquente les eaux côtières. Tard à l'automne et à l'hiver, on le retrouve en profondeur dans les eaux plus chaudes de la marge du plateau continental. Son aire de distribution est caractérisée par la présence de deux zones de ponte. En eaux canadiennes, la ponte se déroule principalement dans le sud du golfe du Saint-Laurent en juin et juillet. En eaux américaines, la ponte se produit entre les côtes du Rhode Island et de la Virginie au cours des mois de mars et avril.

Dans les provinces maritimes, à Terre-Neuve et au Québec (sous-régions 3 et 4 de l'OPANO), plusieurs milliers de pêcheurs commerciaux pratiquent la pêche au maquereau bleu. Celle-ci se déroule généralement près des côtes à l'aide du filet maillant, de la turlutte, de la ligne à la main, de la senne et de la trappe, selon la région et la période de l'année. Au cours des années 1980 et 1990, les débarquements des pêcheurs canadiens ont été stables avec une moyenne de 22 000 t par année. Cependant, une hausse importante s'est produite au début des années 2000 avec un maximum historique de 54 621 t en 2005. Les débarquements moyens de la période 2006-2010 ont été de 43 464 t. Ils ont été suivis d'une chute importante jusqu'à un minimum historique de 4 134 t en 2015.

Les débarquements canadiens de maquereau sont sous-estimés à cause de la pêche d'appât non-déclarée. De plus, les prises de la pêche récréative, qui se déroule au cours des mois d'été le long de la côte atlantique, ne sont pas rapportées, tout comme les rejets de petits maquereaux.

La dernière évaluation du contingent canadien de maquereau remonte à mars 2014. La Direction de la gestion des pêches et de l'aquaculture a sollicité un avis scientifique concernant le contingent canadien de maquereau pour les saisons 2017 et 2018.

Août 2017

Canada

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Pages 2696 to / à 2709

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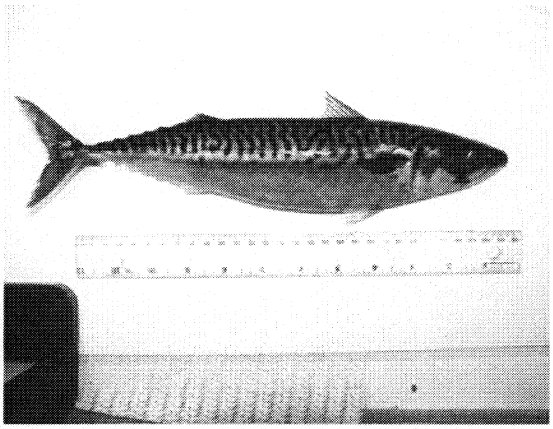
Fisheries and Oceans Canada | Pêches et Océans Canada

Ecosystems and Oceans Science | Sciences des écosystèmes et des océans

Quebec Region

Canadian Science Advisory Secretariat
Science Advisory Report 2017/034

ASSESSMENT OF THE ATLANTIC MACKEREL STOCK FOR THE NORTHWEST ATLANTIC (SUBAREAS 3 AND 4) IN 2016



(Courtesy: Claude Nozères)

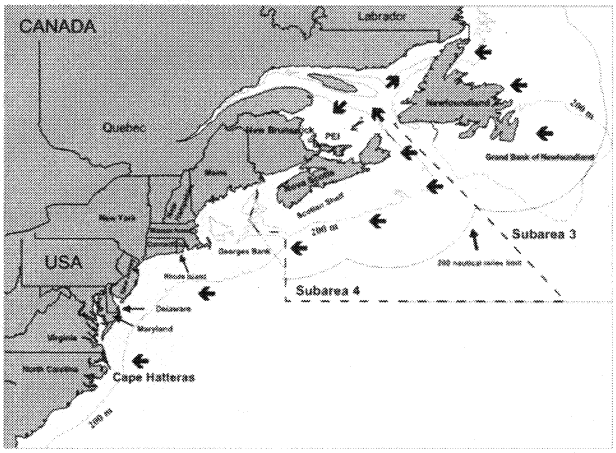


Figure 1. Distribution (←) of Atlantic mackerel (Scomber scombrus L.) in the Northwest Atlantic.

Context:

Atlantic mackerel (Scomber scombrus L.) is found in the waters of the Northwest Atlantic from North Carolina to Newfoundland (Figure 1). During spring and summer, Atlantic mackerel is found in inshore waters. From late fall and in winter, it is found deeper in warmer waters at the edge of the continental shelf. Two main spawning areas characterize its distribution range. In Canadian waters, spawning occurs mainly in the southern Gulf of St. Lawrence during June and July. In American waters, spawning occurs during March and April between the coasts of Rhode Island and Virginia.

In the Maritime Provinces, Newfoundland and Quebec (NAFO subareas 3 and 4), several thousand commercial fishers participate in the Atlantic mackerel fishery. They fish mainly inshore using gillnets, jiggers, handlines, seines and traps, depending on the region and the time of year. Landings by Canadian fishers were stable and averaged 22,000 t per year in the 1980s and 1990s. However, landings increased significantly in the early 2000s, reaching a historical high of 54,621 t in 2005. Average landings for 2006–2010 were 43,464 t. They then fell significantly to a historical low of 4,134 t in 2015.

Canadian Atlantic mackerel landings are underestimated because of unreported bait fishing. In addition, catches in the recreational fishery, which occurs during summer months all along the Atlantic coast, and the discards of small mackerel are not recorded.

The last assessment of the Canadian Atlantic mackerel contingent was completed in March 2014. The Fisheries and Aquaculture Management Branch has requested scientific advice on the Canadian Atlantic mackerel quota for the 2017 and 2018 fishing seasons.

August 2017

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Pages 2711 to / à 2724

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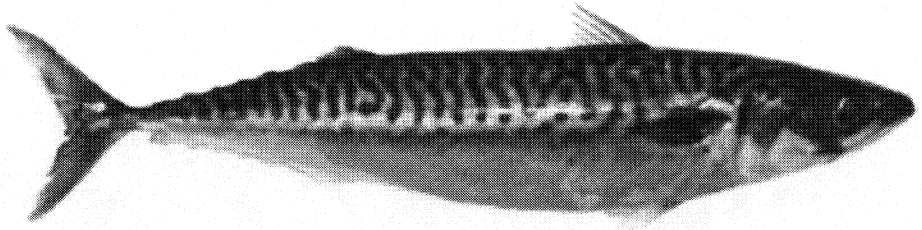
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Fisheries and Oceans Canada | Pêches et Océans Canada

Media Briefing

Assessment of Atlantic Mackerel (NAFO Subareas 3-4)



Quebec Region

May 2017

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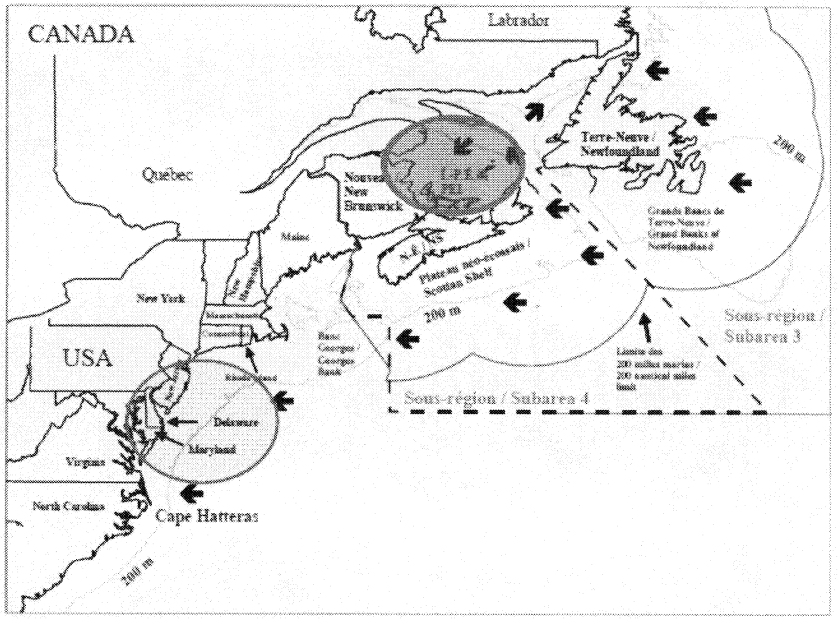
Background

- Schooling, migratory, pelagic fish
- Used as bait for lobster/crab
- Spawn in Gulf of St. Lawrence, overwinter on continental shelf
- Mature at 2 years
- Fully recruited to fishery by ~age 3

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Transboundary Concerns

- Northern + Southern spawning contingents
- Genetically distinct from European stocks
- US and Canadian stocks do not appear to be genetically distinguished
- Unknown proportion of Northern (Canadian) fish in US landings
- Additional work is being carried out to better understand stock structure



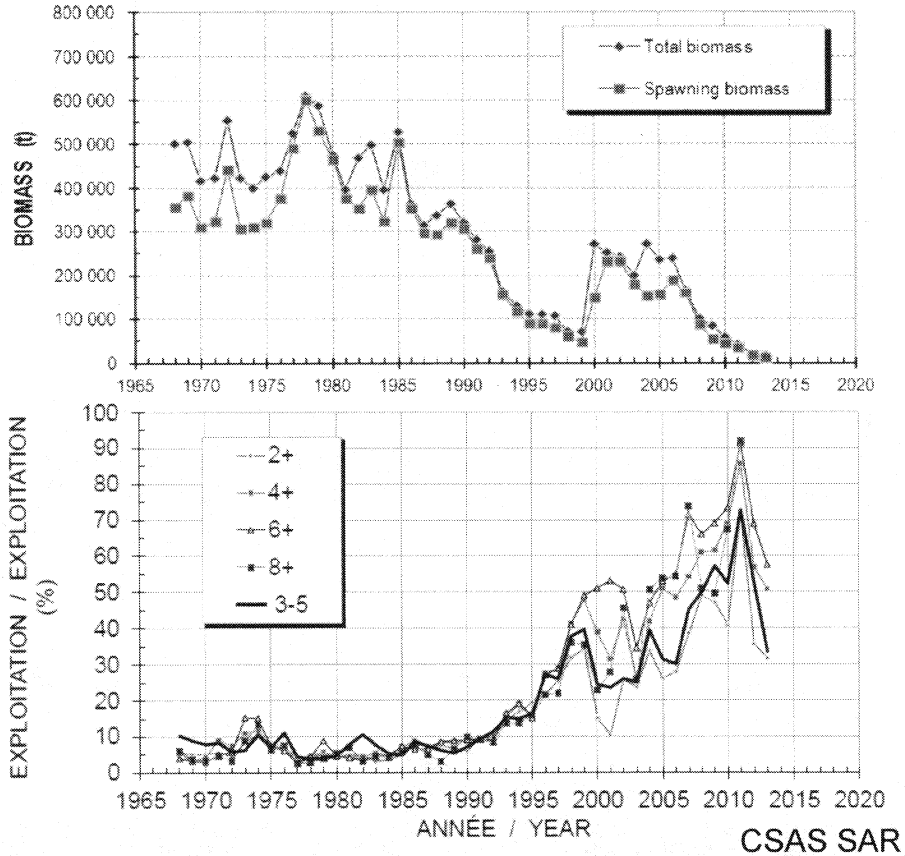
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2014 Assessment – Where were we?

- Commercial landings and biomass ↓, fishing mortality ↑
- Egg survey ↓, contracting age structure
- Modelled stock abundance at lowest historic level in 2013
- **Stock status:** Critical, as below three possible LRPs
- Based on population model and declared catches, SAR recommended TAC of 800 t
- TAC was set at 8000 t for 2015 and 2016



CSAS SAR 2014/030

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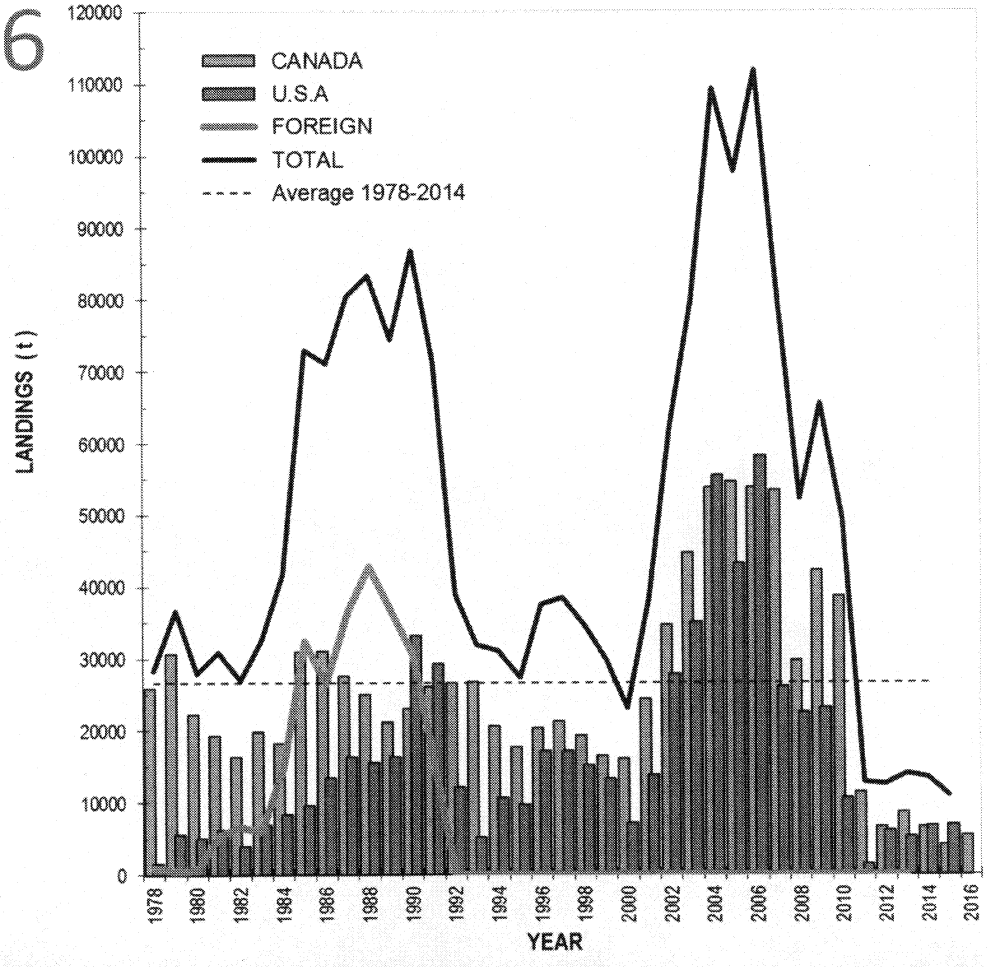
Uncertainty in the Mackerel Fishery

- Only commercial landings are declared
- Undeclared Mackerel caught as:
  - Bait for personal use
  - Sold fisher-to-fisher
  - Recreational use
  - Discard mortality, unfilled logbooks
- Internet survey of recreational/bait use suggests that undeclared catches in 2016 ranged from **50-100%** of declared catches

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Commercial Catch 2016

- Declared catches continue to be low since 2010
- October 2016: Fishery closed as TAC of 8,000 t reached before end of fishing season
- 35% of catches from northeast Newfoundland (division 3K), where catches had been low in recent years

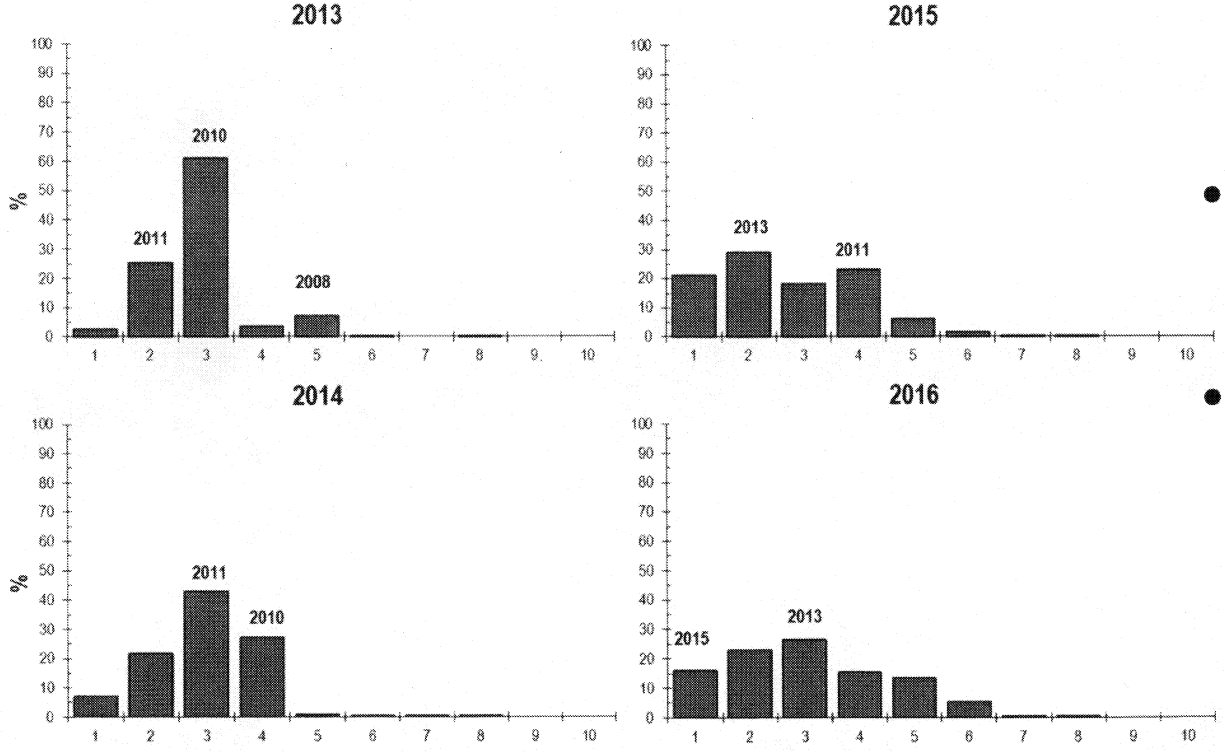


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Age Structure 2013-16



- Age structure still made of young fish and missing older fish (5+)
- Slight improvement since 2013 with an increase of fish aged 5 and 6.

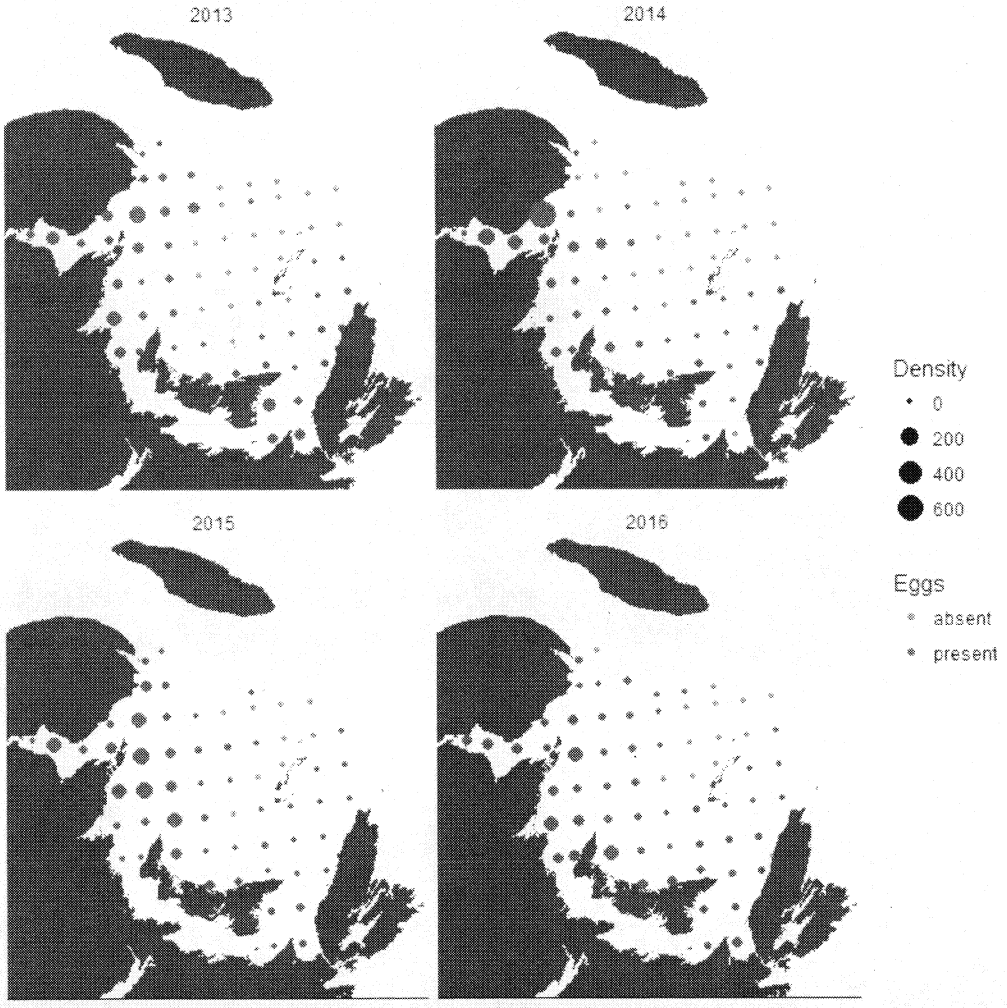
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Mackerel egg survey

A survey of egg production is conducted every year in June in the southern Gulf of St. Lawrence to estimate spawning stock biomass



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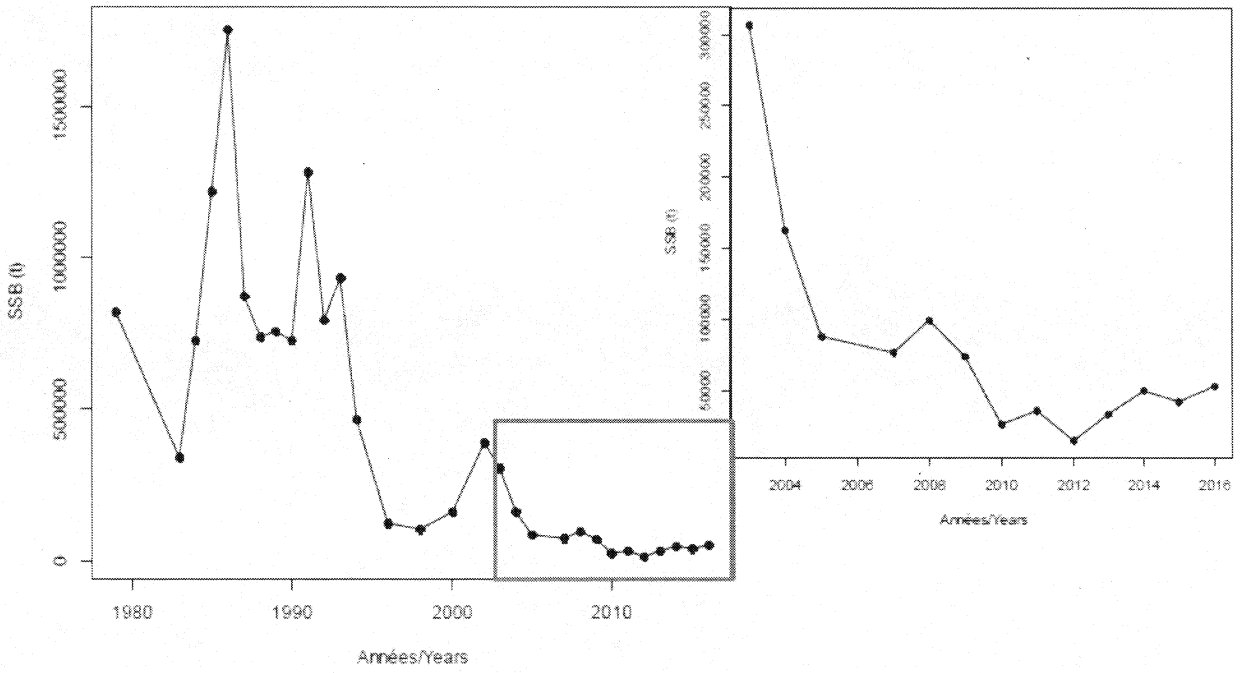
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Abundance Index from Egg Survey

Using the egg data alone, mackerel reached an historical low spawning stock biomass (SSB) in 2012 and has slightly increased since.

Recent estimates remain far below the abundance levels of over 750,000 t reported in the 1980s

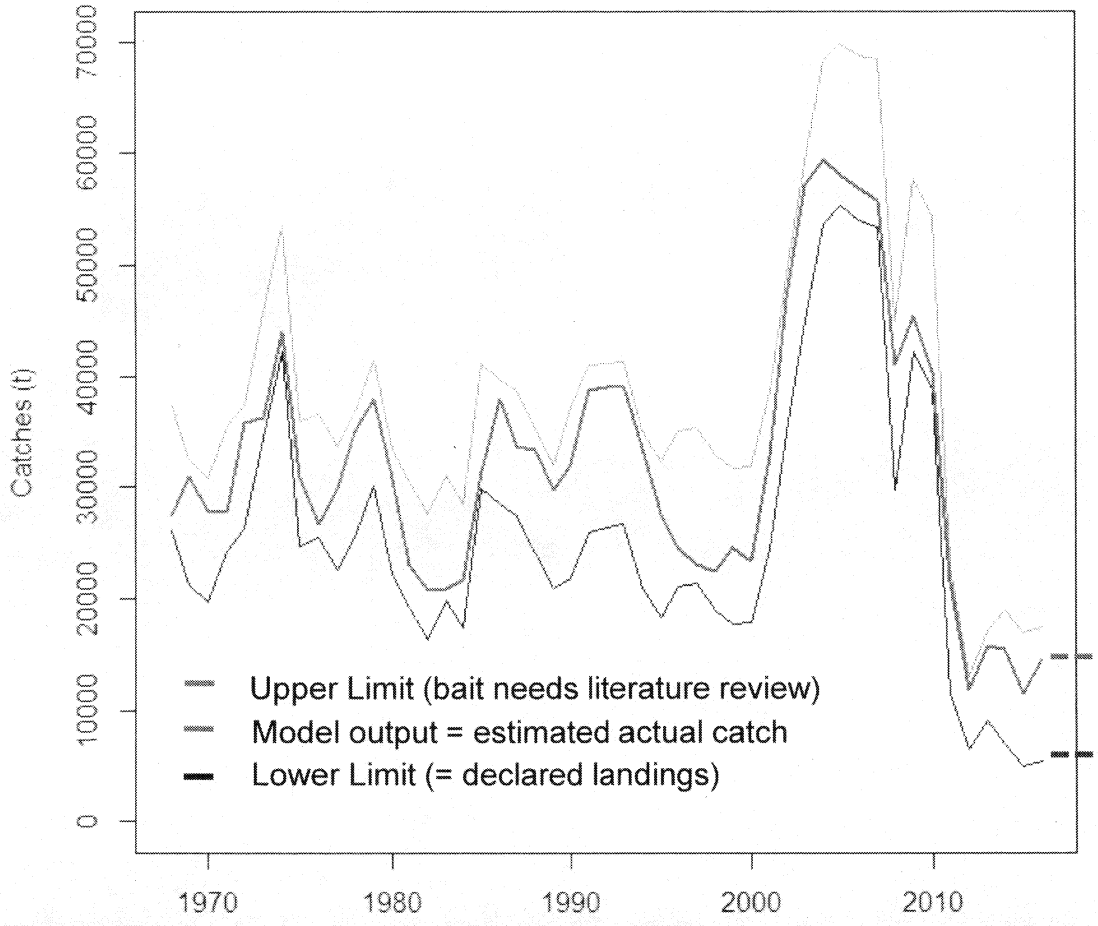


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Statistical model



- A **censored statistical catch-at-age (SCA) model** was developed to estimate undeclared catches
- Declared catch = lower limit
- Possible total catch = upper limit
- This means that with a commercial TAC of 8,000t, total landings including undeclared estimates, were approximately 14,000t in 2016

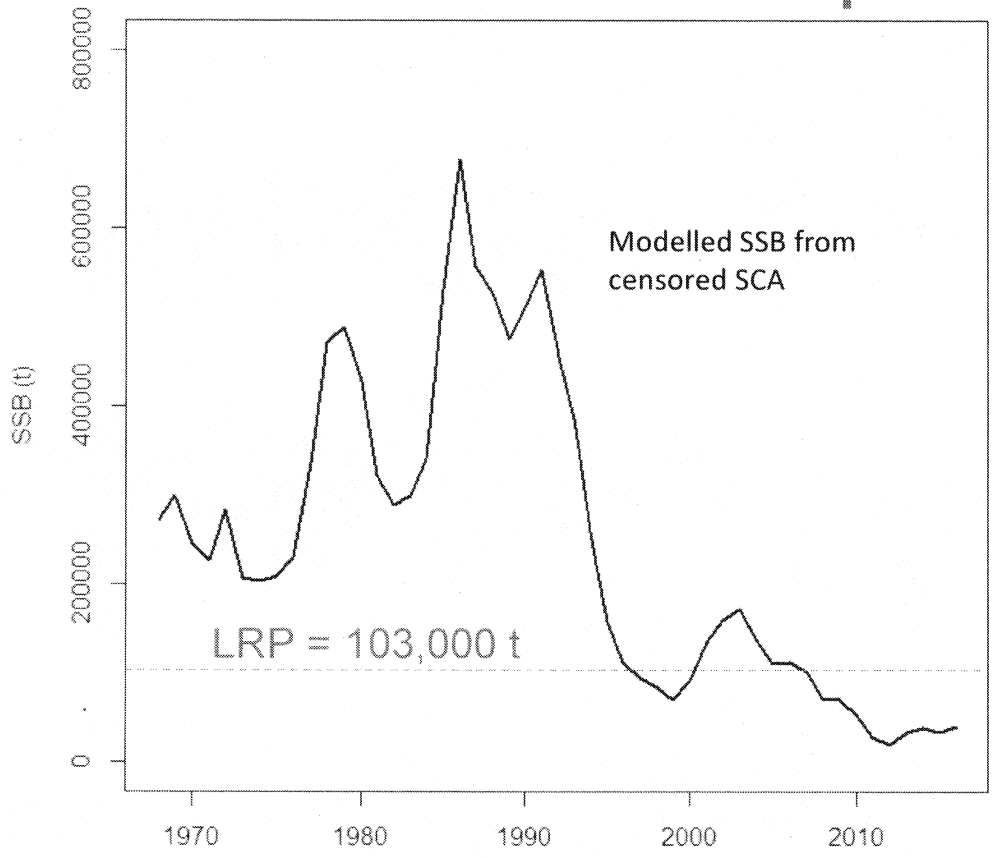
Estimated undeclared catches ~ 6,000 t

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March 2017 - Updated Stock Status



- The new model confirms that mackerel spawning biomass has declined due to high exploitation rates and reached its historical minimum in 2012 (20,000 t). According to the model, the 2016 spawning biomass was 40,000 t.
- The Limit Reference Point (LRP) for this stock is set at 103,000 t. According to the censored model, stock abundance in 2016 was about 40% of the 103,000 t LRP

→ The stock is still deep in the critical zone

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Looking forward: Projections

- Model projections were used to quantify the risks associated with different catch scenarios.
- Considering that the stock is in the critical zone, total catches (declared + unreported) should be low enough to facilitate recovery.
- Projections indicate that total landings of 16,000t (10,000t TAC and up to 6,000t undeclared catches) would result [redacted] that the Atlantic Mackerel spawning stock biomass would increase above its 2016 level in the next two years (reaching an estimated 66,000 t)
- This corresponds to a high probability of growth, as defined in DFO's Precautionary Approach framework (high = 75-95%).

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s.21(1)(b)

Waters, Christa

From: Waters, Christa
Sent: May-08-17 3:26 PM
To: Cawthray, Jenness
Subject: RE: Mackerel Memo

Ok, I already sent you my stuff, so that should be good. [redacted]
C

From: Cawthray, Jenness
Sent: May 8, 2017 3:24 PM
To: Waters, Christa
Subject: RE: Mackerel Memo

No I don't not have one updated yet. I am waiting for comments on last version to include in next version. There was a call with RDGs on Friday with comments on the memo due tomorrow am.

From: Waters, Christa
Sent: May-08-17 2:21 PM
To: Cawthray, Jenness
Subject: RE: Mackerel Memo

Hello,
Did you send out a revised memo to review?
Christa

From: Cawthray, Jenness
Sent: May 8, 2017 3:20 PM
To: Dunne, Erin; Mallet, Pierre; Gaudet, Mario; Thomas, Tashina; Waters, Christa; Rivierre, Antoine; Marentette, Julie
Cc: Lavoie, Pierre; Lester, Brian
Subject: Mackerel Memo
Importance: High

Hi Folks,
Just wanted to let you know that it sounds like we will move forward with a 10,000 commercial TAC. If you have any concerns on this, please let me know ASAP. We are just waiting for final comments from the Regions, Science, and Legal before we finalize the memo tomorrow and move through approvals.
Thanks,

Jenness Cawthray
Senior Fisheries and Aquaculture Management Officer |
Agent principal, Gestion des pêches et de l'aquaculture
Fisheries and Oceans | Pêches et océans
200 rue Kent Street - 13S013 Ottawa, ON, K1A 0E6
Jenness.Cawthray@dfo-mpo.gc.ca
Telephone | Téléphone (613) 998-1524
Facsimile | Télécopieur (613) 990-7051
Government of Canada | Gouvernement du Canada

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Krohn, Martha

From: Krohn, Martha
Sent: May-09-17 8:37 AM
To: Landry, Jean
Cc: Marentette, Julie
Subject: FW: Mackerel TAC memo
Attachments: ATLANTIC_MACKEREL_MANAGEMENT_MEASURES_FPS.docx

Categories: Red Category

Hi Jean,
Julie sent the last version with your most recent edits.
Thanks,
Martha

From: Marentette, Julie
Sent: May-09-17 7:51 AM
To: Cawthray, Jenness
Cc: Krohn, Martha
Subject: RE: Mackerel TAC memo

Hello Jenness,

Please disregard the previous message and attachment - this version (attached) is the correct one.

Thanks,

Julie

From: Marentette, Julie
Sent: May 8, 2017 16:37
To: 'jenness.cawthray@dfo-mpo.gc.ca'
Cc: Krohn, Martha
Subject: FW: Mackerel TAC memo

Hi Jenness,

Please find attached NCR-Science's suggestions for the mackerel memo. Let me know if you have any questions.

Best regards,

Julie Marentette, Ph.D.
Science Advisor, Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Julie.Marentette@dfo-mpo.gc.ca /Tel: 613-943-2098
Conseillère scientifique, Sciences des populations halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Julie.Marentette@dfo-mpo.gc.ca /Tél: 613-943-2098

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From: Krohn, Martha
Sent: May-08-17 3:53 PM
To: Marentette, Julie
Cc: Landry, Jean
Subject: RE: Mackerel TAC memo

Hi Julie,
Please find attached suggested revisions on top of yours and Jean's.
Jean has not seen this version, and may want to add over but will see it in approvals either way.
As discussed, the lengthy section on the new model was requested specifically by MINO. It is added to the background as it seemed to fit better there than in Science advice because there was already a sentence on the new model there.
Thanks,
Martha

Pages 2743 to / à 2750

are duplicates of

sont des duplicatas des

pages 2677 to / à 2684

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s.21(1)(b)

Marentette, Julie

From: Castonguay, Martin
Sent: May-09-17 1:21 PM
To: Krohn, Martha
Cc: Marentette, Julie; Doniol-Valcroze, Thomas
Subject: RE: Mackerel conf call

[redacted]

Martin

De : Krohn, Martha
Envoyé : 9 mai 2017 13:18
À : Castonguay, Martin
Cc : Marentette, Julie
Objet : RE: Mackerel conf call

I don't think so? Julie has not heard either. They are waiting for RDG review of draft memo now. Do you want me to ask EFM? [redacted]

From: Castonguay, Martin
Sent: May-09-17 1:16 PM
To: Krohn, Martha
Subject: Mackerel conf call

Hi Martha,

Did you hear anything about a second mackerel conf call?

Martin

Martin Castonguay, Ph.D.
Chercheur et Chef de section Sciences pélagiques /
Research scientist Head of Pelagic science section
Institut Maurice-Lamontagne
Pêches et Océans Canada / Fisheries and Oceans Canada
850 route de la mer, C.P. 1000,
Mont-Joli, Québec,
Canada G5H 3Z4

Tel 1 418 775 0634
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martin.castonguay@dfo-mpo.gc.ca

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s.21(1)(b)

Marentette, Julie

From: Krohn, Martha
Sent: May-09-17 2:13 PM
To: Landry, Jean; Marentette, Julie
Cc: White, Andrea
Subject: RE: Mackerel Memo

Ok great, thanks,
Martha

From: Landry, Jean
Sent: May-09-17 2:10 PM
To: Krohn, Martha; Marentette, Julie
Cc: White, Andrea
Subject: RE: Mackerel Memo

I already sent a draft to DGO [redacted] yesterday. We just have to wait for the final version. Tks

Jean Landry

Director , Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Jean.Landry@dfo-mpo.gc.ca / Tel: 613-993-0029

Directeur, Sciences halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Jean.Landry@dfo-mpo.gc.ca / Tél. : 613-993-0029

Government of Canada Gouvernement du Canada

Canada

De : Krohn, Martha
Envoyé : 9 mai 2017 14:01
À : Landry, Jean <Jean.Landry@dfo-mpo.gc.ca>; Marentette, Julie <Julie.Marentette@dfo-mpo.gc.ca>
Cc : White, Andrea <Andrea.White@dfo-mpo.gc.ca>
Objet : RE: Mackerel Memo

Hi jean,
We just checked with EFM and we will not be getting another version of the memo. They had not suggest5ed our DG look at it because it will come for approval. We could send the draft as a heads up to Alain, and if he has any issues we could flag them.
Thanks,
Martha

From: Landry, Jean
Sent: May-09-17 1:51 PM
To: Krohn, Martha; Marentette, Julie
Cc: White, Andrea
Subject: RE: Mackerel Memo

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s.21(1)(b)

We should make sure that DGO has the opportunity to review when EFM provides their last version (with the 10K option). [redacted] Can you ask EFM about status and timelines. If they want the memo up today, assuming it will go to our ADMO and then to us but never sure.

Andy: as a heads-up.

Jean Landry

Director , Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Jean.Landry@dfo-mpo.gc.ca / Tel: 613-993-0029

Directeur, Sciences halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Jean.Landry@dfo-mpo.gc.ca / Tél. : 613-993-0029

Government of Canada Gouvernement du Canada

Canada

De : Krohn, Martha
Envoyé : 9 mai 2017 12:53
À : Marentette, Julie <Julie.Marentette@dfo-mpo.gc.ca>
Cc : Landry, Jean <Jean.Landry@dfo-mpo.gc.ca>
Objet : RE: Mackerel Memo

Hi Julie,
The memo was informally sent for review, Alain will see it when it comes for approval.
Jean, do you think we should ask Alain if he wants to review before hand?
Thanks,
Martha

From: Marentette, Julie
Sent: May-09-17 12:50 PM
To: Krohn, Martha
Subject: FW: Mackerel Memo
Importance: High

Hi Martha,

Are we expecting comments from the DGO on this memo? I've forwarded Jean's comments on as you have both seen.

Best regards,

Julie Marentette, Ph.D.

Science Advisor, Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Julie.Marentette@dfo-mpo.gc.ca /Tel: 613-943-2098

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Conseillère scientifique, Sciences des populations halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Julie.Marentette@dfo-mpo.gc.ca /Tél: 613-943-2098

From: Cawthray, Jenness
Sent: May-09-17 11:05 AM
To: Rivierre, Antoine; Dunne, Erin; Mallet, Pierre; Gaudet, Mario; Thomas, Tashina; Waters, Christa; Marentette, Julie
Cc: Lester, Brian
Subject: RE: Mackerel Memo
Importance: High

Hi All,
We were waiting for comments from RDGs on the memo by this morning. Can you follow up in your Regions to see if there are comments? We would like to move the memo this afternoon.
Thank you!
Jenness

From: Rivierre, Antoine
Sent: May-08-17 3:26 PM
To: Cawthray, Jenness; Dunne, Erin; Mallet, Pierre; Gaudet, Mario; Thomas, Tashina; Waters, Christa; Marentette, Julie
Cc: Lavoie, Pierre; Lester, Brian
Subject: RE: Mackerel Memo

Good for me !

Antoine

De : Cawthray, Jenness
Envoyé : May-08-17 2:20 PM
À : Dunne, Erin; Mallet, Pierre; Gaudet, Mario; Thomas, Tashina; Waters, Christa; Rivierre, Antoine; Marentette, Julie
Cc : Lavoie, Pierre; Lester, Brian
Objet : Mackerel Memo
Importance : Haute

Hi Folks,
Just wanted to let you know that it sounds like we will move forward with a 10,000 commercial TAC. If you have any concerns on this, please let me know ASAP. We are just waiting for final comments from the Regions, Science, and Legal before we finalize the memo tomorrow and move through approvals.
Thanks,

Jenness Cawthray
Senior Fisheries and Aquaculture Management Officer |
Agent principal, Gestion des pêches et de l'aquaculture
Fisheries and Oceans | Pêches et océans
200 rue Kent Street - 13S013 Ottawa, ON, K1A 0E6
Jenness.Cawthray@dfo-mpo.gc.ca
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s.21(1)(b)

Patterson, Pauline

De: Rivierre, Antoine
Envoyé: May-09-17 3:42 PM
À: Lemire, Maryse
Objet: RE: Info: TR: Mackerel TAC

Maryse
Tel que discuté la région du Québec pense qu'il est peu probable que les nouvelles mesures de gestion proposées par le région du Golfe permettent de faire baisser de 2000 t la quantité de captures non déclarées. Le Hail-In et la vérification à quai permettront peut-être de faire légèrement baisser la quantité de captures non déclarées, mais pas de cet ordre de grandeur, car elles n'auront pas d'effet sur la pêche à l'appât.

En 2016, les sciences ont évalué que les captures non déclarées représentaient environ 6000 t, et ont précisé que cette quantité était probablement SOUS-ESTIMÉE.

Antoine

De : Lemire, Maryse
Envoyé : May-09-17 3:27 PM
À : Rivierre, Antoine
Cc : Boudreau, Suzie
Objet : TR: Info: TR: Mackerel TAC

Antoine,

Peux-tu me dire d'où vient la différence d'interprétation ?

Maryse

Maryse Lemire

Directrice régionale de la gestion des pêches
Pêches et Océans Canada / Gouvernement du Canada
Maryse.Lemire@dfo-mpo.gc.ca / Tél.: 418-648-5783

Fisheries Management Regional Director
Fisheries and Oceans Canada / Government of Canada
Maryse.Lemire@dfo-mpo.gc.ca / Tel.: 418-648-5783

Ma langue, une question de respect
My language, a matter of respect

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De : Vincent, Patrick
Envoyé : 9 mai 2017 15:22
À : Lemire, Maryse <Maryse.Lemire@dfo-mpo.gc.ca>
Objet : Info: TR: Mackerel TAC

s.21(1)(b)

Bonjour Maryse,

Pour ton information. Patrick vient de recevoir ce courriel de Serge Doucet.

Lucie

De : Doucet, Serge
Envoyé : 9 mai 2017 15:19
À : Cawthray, Jenness
Cc : Valkenier, Mary-Ellen; Vincent, Guylaine; Vincent, Patrick; Burns, Adam; Anderson, Kevin; Quinn, Frank
Objet : Mackerel TAC

Jenness;

[redacted]

If you have any questions, please don't hesitate to reach out.

Have a great day.

Serge Doucet
Regional Director General /Directeur général régional
Gulf Region / Région du Golfe
(506) 851-7750 /Cell (506) 871-9532/ facsimile / télécopieur (506) 851-7732
Serge.Doucet@dfo-mpo.gc.ca
Fisheries and Oceans Canada, Gulf Region / P.O. Box 5030, 343 Université Avenue, Moncton, NB E1C 9B6
Pêches et Océans Canada, Région du Golfe, C.P. 5030, 343, avenue de l'Université, Moncton (N.-B.) E1C 9B6
Government of Canada | Gouvernement du Canada

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Patterson, Pauline

De: Rivierre, Antoine
Envoyé: May-09-17 9:28 AM
À: Boudreau, Suzie
Objet: TR: Mackerel Memo

Importance: Haute

PTI

De : Cawthray, Jenness
Envoyé : May-08-17 2:20 PM
À : Dunne, Erin; Mallet, Pierre; Gaudet, Mario; Thomas, Tashina; Waters, Christa; Rivierre, Antoine; Marentette, Julie
Cc : Lavoie, Pierre; Lester, Brian
Objet : Mackerel Memo
Importance : Haute

Hi Folks,
Just wanted to let you know that it sounds like we will move forward with a 10,000 commercial TAC. If you have any concerns on this, please let me know ASAP. We are just waiting for final comments from the Regions, Science, and Legal before we finalize the memo tomorrow and move through approvals.
Thanks,

Jenness Cawthray
Senior Fisheries and Aquaculture Management Officer |
Agent principal, Gestion des pêches et de l'aquaculture
Fisheries and Oceans | Pêches et océans
200 rue Kent Street - 13S013 Ottawa, ON, K1A 0E6
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Cormier, Mélanie

De: Boudreau, Suzie
Envoyé: 9 mai 2017 11:46
À: Lemire, Maryse
Cc: Rivierre, Antoine
Objet: TR: Mackerel Memo

Importance: Haute

Voir ci-dessous la mise à jour de la situation avec le Golfe / fournir les commentaires sur le mémo.

- Nous tenons à ce que le TAC supporte l'avis scientifique (10kt) excluant 6kt (prises non déclarées).
- Si on ne constate pas d'amélioration dans les prises non déclarées, cela n'est pas à l'avantage de l'industrie pour l'année suivante.
- Lors de l'appel, nous avons mentionné que les mesures n'étaient toujours pas suffisantes (il manque toujours le journal de bord).
- [redacted]

Merci,

Suzie

De : Rivierre, Antoine
Envoyé : 9 mai 2017 11:25
À : Boudreau, Suzie
Objet : TR: Mackerel Memo
Importance : Haute

Suzie, est-ce possible de faire un suivi concernant le message plus bas ?

[redacted]

Antoine

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De : Cawthray, Jenness
Envoyé : May-09-17 11:05 AM
À : Rivierre, Antoine; Dunne, Erin; Mallet, Pierre; Gaudet, Mario; Thomas, Tashina; Waters, Christa; Marentette, Julie
Cc : Lester, Brian
Objet : RE: Mackerel Memo
Importance : Haute

Hi All,
We were waiting for comments from RDGs on the memo by this morning. Can you follow up in your Regions to see if there are comments? We would like to move the memo this afternoon.
Thank you!
Jenness

From: Rivierre, Antoine
Sent: May-08-17 3:26 PM
To: Cawthray, Jenness; Dunne, Erin; Mallet, Pierre; Gaudet, Mario; Thomas, Tashina; Waters, Christa; Marentette, Julie
Cc: Lavoie, Pierre; Lester, Brian
Subject: RE: Mackerel Memo

Good for me !

Antoine

De : Cawthray, Jenness
Envoyé : May-08-17 2:20 PM
À : Dunne, Erin; Mallet, Pierre; Gaudet, Mario; Thomas, Tashina; Waters, Christa; Rivierre, Antoine; Marentette, Julie
Cc : Lavoie, Pierre; Lester, Brian
Objet : Mackerel Memo
Importance : Haute

Hi Folks,
Just wanted to let you know that it sounds like we will move forward with a 10,000 commercial TAC. If you have any concerns on this, please let me know ASAP. We are just waiting for final comments from the Regions, Science, and Legal before we finalize the memo tomorrow and move through approvals.
Thanks,

Jenness Cawthray
Senior Fisheries and Aquaculture Management Officer |
Agent principal, Gestion des pêches et de l'aquaculture
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s.21(1)(b)

Bernard-Martel, Laurianne

De: Lemire, Maryse
Envoyé: 9 mai 2017 15:59
À: Vincent, Patrick (Patrick.Vincent@dfo-mpo.gc.ca)
Cc: Boudreau, Suzie; Rivierre, Antoine
Objet: POUR APPROBATION ET ENVOI TR: Mackerel Memo
Pièces jointes: 2017 ATLANTIC MACKEREL MANAGEMENT MEASURES; RE: Info: TR: Mackerel TAC

Importance: Haute

Catégories: CLASSER ET SUPPRIMER

Bonjour Patrick,

Nous avons reçu un rappel de l'AC indiquant que les commentaires des DGR sur le mémo étaient attendus pour ce matin.

Tu trouveras, ci-joint pour ton approbation et envoi, une proposition de courriel à l'attention de Sylvie Lapointe.

Sans envoyer de commentaires détaillés sur le mémo lui-même, je pense qu'il est important que la région réitère sa position.

Comme tu pourras le voir dans le courriel d'Antoine ci-dessous, l'administration centrale nous a annoncé hier sa volonté d'aller de l'avant avec un TAC de 10 000t.

Maryse

Maryse Lemire

Directrice régionale de la gestion des pêches
Pêches et Océans Canada / Gouvernement du Canada
Maryse.Lemire@dfo-mpo.gc.ca / Tél.: 418-648-5783

Fisheries Management Regional Director
Fisheries and Oceans Canada / Government of Canada
Maryse.Lemire@dfo-mpo.gc.ca / Tel.: 418-648-5783

Ma langue, une question de respect
My language, a matter of respect

De : Rivierre, Antoine
Envoyé : 9 mai 2017 13:29
À : Lemire, Maryse <Maryse.Lemire@dfo-mpo.gc.ca>
Cc : Boudreau, Suzie <Suzie.Boudreau@dfo-mpo.gc.ca>

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Objet : TR: Mackerel Memo s.21(1)(b)
Importance : Haute

Maryse
Tel que discuté lors de l'appel conférence du vendredi 5 mai, voici les commentaires que nous pouvons adresser à l'administration centrale :

1. **TAC**

[redacted]

2. **Mesures de Gestion**

La mise en œuvre de l'appel d'entrée et de 25% de vérification à quai dans la région du Golfe est un pas dans la bonne direction. Il est cependant peu probable que ces mesures permettent dès la première année de réduire la quantité de prises non déclarées de 6 000 t à 4 000 t, tel que précisé dans le mémo. Il serait intéressant d'indiquer dès cette année la mise en place de nouvelles mesures de gestion pour les années suivantes et la région du Québec souhaiterait que les autres régions aillent de l'avant avec la mise en place des livres de bord obligatoires.

Pour ton information, hier pm l'administration centrale nous a annoncé sa volonté d'aller de l'avant avec un TAC de 10 000t.

[redacted]

ENJEUX pour la région du Québec :

[redacted]

Merci

De : Cawthray, Jenness
Envoyé : May-09-17 11:05 AM
À : Rivierre, Antoine; Dunne, Erin; Mallet, Pierre; Gaudet, Mario; Thomas, Tashina; Waters, Christa; Marentette, Julie
Cc : Lester, Brian
Objet : RE: Mackerel Memo
Importance : Haute

Hi All,
We were waiting for comments from RDGs on the memo by this morning. Can you follow up in your Regions to see if there are comments? We would like to move the memo this afternoon.
Thank you!
Jenness

From: Rivierre, Antoine
Sent: May-08-17 3:26 PM
To: Cawthray, Jenness; Dunne, Erin; Mallet, Pierre; Gaudet, Mario; Thomas, Tashina; Waters, Christa; Marentette, Julie

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Cc: Lavoie, Pierre; Lester, Brian
Subject: RE: Mackerel Memo

Good for me !

Antoine

De : Cawthray, Jenness
Envoyé : May-08-17 2:20 PM
À : Dunne, Erin; Mallet, Pierre; Gaudet, Mario; Thomas, Tashina; Waters, Christa; Rivierre, Antoine; Marentette, Julie
Cc : Lavoie, Pierre; Lester, Brian
Objet : Mackerel Memo
Importance : Haute

Hi Folks,
Just wanted to let you know that it sounds like we will move forward with a 10,000 commercial TAC. If you have any concerns on this, please let me know ASAP. We are just waiting for final comments from the Regions, Science, and Legal before we finalize the memo tomorrow and move through approvals.
Thanks,

Jenness Cawthray
Senior Fisheries and Aquaculture Management Officer |
Agent principal, Gestion des pêches et de l'aquaculture
Fisheries and Oceans | Pêches et océans
200 rue Kent Street - 13S013 Ottawa, ON, K1A 0E6
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s.21(1)(b)

Bernard-Martel, Laurianne

À: Lapointe, Sylvie
Cc: Burns, Adam; Lester, Brian; Cawthray, Jenness; Lemire, Maryse
Objet: 2017 ATLANTIC MACKEREL MANAGEMENT MEASURES
Pièces jointes: MECTS-#3766140-v7-2017_ATLANTIC_MACKEREL_MANAGEMENT_MEASURES.DOCX

Importance: Haute

Bonjour Sylvie,

Tu trouveras ci-dessous les commentaires de la région du Québec concernant le mémo et faisant suite à notre appel de vendredi dernier.

1. TAC

[redacted]

2. Mesures de Gestion

La mise en œuvre de l'appel d'entrée et de 25% de vérification à quai dans la région du Golfe est un pas dans la bonne direction. Il est cependant peu probable que ces mesures permettent dès la première année de réduire la quantité de prises non déclarées de 6 000 t à 4 000 t, tel que précisé dans le mémo. Le Hail-In et la vérification à quai permettront peut-être de faire légèrement baisser la quantité de captures non déclarées, mais pas de cet ordre de grandeur, car elles n'auront pas d'effet sur la pêche à l'appât.
En 2016, les sciences ont évalué que les captures non déclarées représentaient environ 6000 t, et ont précisé que cette quantité était probablement SOUS-ESTIMÉE.

[redacted]

Il serait intéressant d'indiquer dès cette année la mise en place de nouvelles mesures de gestion pour les années suivantes et la région du Québec souhaiterait que les autres régions aillent de l'avant avec la mise en place des livres de bord obligatoires.

Merci,

Patrick Vincent

Directeur général régional, Région du Québec
Pêches et Océans Canada / Gouvernement du Canada
104, rue Dalhousie, Québec, Qc, G1K 7Y7
Patrick.Vincent@dfo-mpo.gc.ca / Tél.: 418-648-4158

Regional Director General, Quebec Region
Fisheries and Oceans Canada / Government of Canada
104 Dalhousie Street, Québec, Qc, G1K 7Y7
Patrick.Vincent@dfo-mpo.gc.ca / Tel.: 418-648-4158

De : Cawthray, Jenness
Envoyé : May-09-17 11:05 AM

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À : Rivierre, Antoine; Dunne, Erin; Mallet, Pierre; Gaudet, Mario; Thomas, Tashina; Waters, Christa; Marentette, Julie
Cc : Lester, Brian
Objet : RE: Mackerel Memo
Importance : Haute

Hi All,
We were waiting for comments from RDGs on the memo by this morning. Can you follow up in your Regions to see if there are comments? We would like to move the memo this afternoon.
Thank you!
Jenness

From: Rivierre, Antoine
Sent: May-08-17 3:26 PM
To: Cawthray, Jenness; Dunne, Erin; Mallet, Pierre; Gaudet, Mario; Thomas, Tashina; Waters, Christa; Marentette, Julie
Cc: Lavoie, Pierre; Lester, Brian
Subject: RE: Mackerel Memo

Good for me !

Antoine

De : Cawthray, Jenness
Envoyé : May-08-17 2:20 PM
À : Dunne, Erin; Mallet, Pierre; Gaudet, Mario; Thomas, Tashina; Waters, Christa; Rivierre, Antoine; Marentette, Julie
Cc : Lavoie, Pierre; Lester, Brian
Objet : Mackerel Memo
Importance : Haute

Hi Folks,
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Thanks,

Jenness Cawthray
Senior Fisheries and Aquaculture Management Officer |
Agent principal, Gestion des pêches et de l'aquaculture
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Pages 2765 to / à 2772

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pages 2658 to / à 2665

Pages 2773 to / à 2774

are duplicates of

sont des duplicatas des

pages 2755 to / à 2756

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LeCouffe, Marc

From: LeCouffe, Marc
Sent: Tuesday, May 9, 2017 2:40 PM
To: Quinn, Frank
Subject: FW: Mackerel Memo

Importance: High

From: Mallet, Pierre
Sent: Tuesday, May 9, 2017 12:06 PM
To: LeCouffe, Marc <Marc.LeCouffe@dfo-mpo.gc.ca>
Subject: Fw: Mackerel Memo
Importance: High

As tu envoyé qqc

Sent from my BlackBerry 10 smartphone on the Rogers network.

From: Cawthray, Jenness <cawthrayj.Cawthray@dfo-mpo.gc.ca>
Sent: Tuesday, May 9, 2017 12:04 PM
To: Rivierre, Antoine; Dunne, Erin; Mallet, Pierre; Gaudet, Mario; Thomas, Tashina; Waters, Christa; Marentette, Julie
Cc: Lester, Brian
Subject: RE: Mackerel Memo

Hi All,
We were waiting for comments from RDGs on the memo by this morning. Can you follow up in your Regions to see if there are comments? We would like to move the memo this afternoon.
Thank you!
Jenness

From: Rivierre, Antoine
Sent: May-08-17 3:26 PM
To: Cawthray, Jenness; Dunne, Erin; Mallet, Pierre; Gaudet, Mario; Thomas, Tashina; Waters, Christa; Marentette, Julie
Cc: Lavoie, Pierre; Lester, Brian
Subject: RE: Mackerel Memo

Good for me !

Antoine

De : Cawthray, Jenness
Envoyé : May-08-17 2:20 PM
À : Dunne, Erin; Mallet, Pierre; Gaudet, Mario; Thomas, Tashina; Waters, Christa; Rivierre, Antoine; Marentette, Julie
Cc : Lavoie, Pierre; Lester, Brian
Objet : Mackerel Memo
Importance : Haute

Hi Folks,

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Just wanted to let you know that it sounds like we will move forward with a 10,000 commercial TAC. If you have any concerns on this, please let me know ASAP. We are just waiting for final comments from the Regions, Science, and Legal before we finalize the memo tomorrow and move through approvals.
Thanks,

Jenness Cawthray
Senior Fisheries and Aquaculture Management Officer |
Agent principal, Gestion des pêches et de l'aquaculture
Fisheries and Oceans | Pêches et océans
200 rue Kent Street - 13S013 Ottawa, ON, K1A 0E6
Jenness.Cawthray@dfo-mpo.gc.ca
Telephone | Téléphone (613) 998-1524
Facsimile | Télécopieur (613) 990-7051
Government of Canada | Gouvernement du Canada

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s.21(1)(b)

LeCouffe, Marc s.16(2)

From: LeCouffe, Marc
Sent: Tuesday, May 9, 2017 2:09 PM
To: Quinn, Frank
Subject: Re: Mackerel Memo

Yes. I tried to call but got mailbox... You can reach me at [redacted]

From: Quinn, Frank
Sent: Tuesday, May 09, 2017 01:44 PM
To: LeCouffe, Marc
Subject: RE: Mackerel Memo

Would you have a minute to call?

Frank Quinn

Regional Director, Fisheries and Aquaculture Management
Fisheries and Oceans Canada/Government of Canada
frank.quinn@dfo-mpo.gc.ca /Tel: 506-851-7752

Directeur régional, Gestion des pêches et de l'aquaculture
Pêches et Oceans Canada/Governement du Canada
frank.quinn@dfo-mpo.gc.ca /Tél.: 506-851-7752

If you have received this communication by mistake, please notify the sender immediately and delete the communication without printing, copying or forwarding it. Thank you.

Si vous avez reçu cette communication par erreur, veuillez en aviser l'expéditeur immédiatement et la supprimer sans l'imprimer, la copier, ou la faire suivre. Merci

From: LeCouffe, Marc
Sent: Tuesday, May 9, 2017 12:56 PM
To: Quinn, Frank <Frank.Quinn@dfo-mpo.gc.ca>
Subject: RE: Mackerel Memo

Hi Frank,

NHQ is expecting RDG comments on the proposed mackerel TAC.

Marc

From: LeCouffe, Marc
Sent: Tuesday, May 9, 2017 7:58 AM
To: Quinn, Frank <Frank.Quinn@dfo-mpo.gc.ca>
Subject: Fw: Mackerel Memo

Hi Frank,

Please see the following. [redacted]

s.16(2) s.21(1)(b)
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[redacted]

Marc

From: Mallet, Pierre
Sent: Monday, May 08, 2017 05:01 PM
To: LeCouffe, Marc; Quinn, Frank
Subject: Fw: Mackerel Memo

Sent from my BlackBerry 10 smartphone on the Rogers network.

From: Gaudet, Mario <Mario.Gaudet@dfo-mpo.gc.ca>
Sent: Monday, May 8, 2017 3:56 PM
To: Mallet, Pierre
Subject: RE : Mackerel Memo

[redacted]

M

De : Mallet, Pierre
Envoyé : 8 mai 2017 15:39
À : Gaudet, Mario
Objet : RE: Mackerel Memo

Merci

Je suis en train d'envoye qqc mais ma machine a crasher. Je vais utiliser ton texte

From: Gaudet, Mario
Sent: May-08-17 3:39 PM
To: Mallet, Pierre
Subject: TR : Mackerel Memo
Importance: High

Salut Pierre,

my comments regarding this recommendation...

[redacted]

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s.21(1)(b)

Mario

De : Cawthray, Jenness
Envoyé : 8 mai 2017 15:19
À : Dunne, Erin; Mallet, Pierre; Gaudet, Mario; Thomas, Tashina; Waters, Christa; Rivierre, Antoine; Marentette, Julie
Cc : Lavoie, Pierre; Lester, Brian
Objet : Mackerel Memo

Hi Folks,
Just wanted to let you know that it sounds like we will move forward with a 10,000 commercial TAC. If you have any concerns on this, please let me know ASAP. We are just waiting for final comments from the Regions, Science, and Legal before we finalize the memo tomorrow and move through approvals.
Thanks,

Jenness Cawthray
Senior Fisheries and Aquaculture Management Officer |
Agent principal, Gestion des pêches et de l'aquaculture
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Fisheries and Oceans Canada
Deputy Minister

Pêches et Océans Canada
Sous-ministre

UNCLASSIFIED
2017-045-00376
EKME #: 3766140

MEMORANDUM FOR THE MINISTER

2017 ATLANTIC MACKEREL MANAGEMENT MEASURES
(FOR DECISION)

SUMMARY OF ADVICE TO MINISTER

This memo seeks your approval of the Total Allowable Catches (TAC) for the mackerel fishery in Atlantic Canada, and outlines next steps for improved reporting and a rebuilding plan for this fishery. A map of Atlantic Canada's mackerel harvesting areas is provided at TAB 1.

On March 30, 2017, the Atlantic Mackerel Advisory Committee (ASAC) met in Halifax to discuss the TAC levels and other key management issues for this fishery. A supplementary meeting for aboriginal groups was also held on March 28, 2017. Science presented a recently completed peer-reviewed assessment of the Mackerel stock for 2016 (TAB 2). Results indicate that while the stock continues to remain in the critical zone, there are some early signs of recruitment.

There was no consensus reached on TAC recommendations for the 2017 and 2018 fishery. Commercial harvesters put forth recommendations to increase the TAC to 20,000t or 36,000t, aboriginal groups suggested a closure of the fishery while it remains in the critical zone and non-government organizations requested implementing a low TAC.

Unreported landings in bait fisheries and unknown harvests from the recreational fishery are continuing to impact the stock assessment. There was agreement among the AMAC that monitoring and reporting of catches for this fishery should be improved so that the government stakeholders can better understand the health of this fishery. The department is actively undertaking measures to improve reporting for the 2017 fishery and beyond.

It is recommended that that you set the 2017 TAC at 16,000t for one year. This would consist of 10,000t (representing a modest increase from 8000t in 2016) for the commercial fishery and 6,000t for unreported catches. It is important to note that although the stock remains in the critical zone, this harvest level has a high probability of growth at 77 percent and consistent with the PA framework of above 75 percent growth. From a departmental perspective this represents a good balance between projected positive growth of the stock and economic value of the fishery, while continuing to encourage better reporting and participation in a rebuilding plan working group for the fishery.

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BACKGROUND

The Atlantic Mackerel stock is a trans-boundary stock found in both Canadian and United States waters (map at TAB 1). Mackerel is fished in Canadian waters on a fully competitive basis, with an inshore/offshore split of 60%/40% respectively. There is no regional sharing arrangement in place.

A policy on priority of access is given to licence holders with vessels less than 65' (the inshore fleet) for up to 60% of the Total Allowable Catch (TAC) over the licence holders member of the fleet having vessels 65' and over (the offshore fleet) as outlined in the Integrated Fisheries Management Plan for Atlantic Mackerel. The priority of access of the mackerel fishery given to the inshore fleet was an initiative to help protect the inshore sector and traditional inshore markets.

Total reported commercial landings in Atlantic Canada have decreased significantly in recent years, from a high of 54,621t in 2005 to record low 4,145t in 2015. During the same time frame, TAC levels followed the landings trajectory and resulted in a reduction to 8,000t per year over the past two years. The TAC has not been restrictive on landings.

In 2016, the Atlantic mackerel TAC was reached and the fishery was closed for the first time since at least 2005. Commercial landings in this fishery have been in the range of 5,000t per year in 2014 and 2015. However, significant catches by the Newfoundland inshore fleet, mainly in 3K, in early October 2016, lead to a closure the fishery. It is important to note that the appearance of mackerel in 3k is not typical and it appears periodically.

There was significance negative reaction following the closure of the mackerel fishery as the offshore fleet (large seiners) did not have an opportunity to fish in 2016 as they were just starting when the Department closed the fishery. Harvesters in 3k indicated that there was a large stock of mackerel still in the waters in this area when the fishery closed. Harvesters have also noted the that mackerel in area 3k in the east coast of Newfoundland and Labrador have a different appearance than the mackerel on the west coast and could be from a different stock, such as European mackerel.

The 2014 science stock assessment indicated the Atlantic mackerel stock biomass was at the lowest observed level in the time series (1967-2013). The assessment indicated the stock was over-exploited from 2010-2013 and has continued to decline at recent harvest levels. At that time, the stock assessment indicated that annual catches in 2014 and 2015 should not exceed 800 tons per year in the commercial fishery. The results from science were not accepted and science has worked on developing a new model.

Science has recently undertaken a new stock assessment and developed a Limit Reference Point for Atlantic mackerel (TAB 2). While the new assessment shows some early positive signs of growth, the stock is still well within the critical zone as defined by the Precautionary Approach (PA) Framework. The scientific model provides a range of harvest scenarios with associated growth projections. It is understood that considering the stock is in the critical zone, total catches

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(undeclared and declared) should be enough to facilitate recovery. Declared catches represents the number of commercial landings; while undeclared represents catches that are unreported from bait and recreational fisheries. Science noted concerns over the high and unaccounted harvest amounts in the mackerel bait and recreational fisheries. It is important to note that as reporting improves the level of undeclared catches would decline while the level of reported declared catches would rise by the same amount. Therefore, with better reporting more TAC would be available for the commercial fishery over time.

Results of the stock assessment were presented at AMAC. While the new model was viewed more favorably by stakeholders than the previous model; industry was of the view that the stock of mackerel in Canadian waters is significantly under assessed. Fishermen have reported a significant number of small fish throughout the Gulf of St. Lawrence in 2016 which could be the sign of good recruitment.

At AMAC, commercial harvesters put forth recommendations to increase the TAC to 20,000t or 36,000t; however, these levels do not promote growth of the stock on line with DFO's Precautionary Growth Framework. Aboriginal groups suggested a closure of the fishery while the stock remains in the critical zone; while Ecology Action Center requested a low TAC of 8,000t while the stock remains in the critical zone.

The AMAC normally meets every two years and the management measures, including TAC, are established for a two-year cycle. However, the Committee has requested a one year TAC for 2017 and to revisit the management plan for 2018.

[redacted] Science is working with the U.S. on a Canada/US joint stock assessment.

STRATEGIC CONSIDERATIONS

Harvesters will not react favorably to a TAC of 16,000t as it is far below requests from industry, particularly in NL where a 36,000t TAC was recommended, however the Department is of the view that a more conservative 16,000t TAC would keep fishing mortality numbers within acceptable scientific limits consistent with the PA framework of above 75 percent growth, at 77 percent specifically for this harvest level. This represents a good balance between projected positive growth of the stock and economic value of the fishery, while continuing to encourage better reporting and participation in a rebuilding plan working group for the fishery. This conservative approach is also in line with the government mandate that all fisheries management decision be supported by sound science.

A TAC of 16,000t comprises 10,000t for the commercial fishery and 6,000t for undeclared catches. This represents only a modest increase in TAC from 8000t in 2016 as better reporting in 2017 should permit at least 1,000t of TAC to move from undeclared to the commercial declared category.

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The department has undertaken a study of genetic mackerel in the 3k area, which will address industry concerns that mackerel in this area could be from the European stock which has strong population numbers. Results are expected to be available late summer.

High and unaccounted harvest amounts in the mackerel bait and recreational fisheries continues to represent a challenge in this fishery and the impact of these fisheries on the health of the stock are largely unknown. The department is current analysing options for the inclusion of recreational mackerel in a potential Marine Recreational Fishing Licence for Eastern Canada to improve reporting of this fishery.

In 2016, harvesters were critical of the rapid and unexpected closure of the fishery. In order to mitigate this situation next season the Department has started implementing measures to enhance monitoring and timely data collection, particularly in the Gulf and Maritimes Regions (attach regional summary table of monitoring). In addition, the department intends to hold a conference call with AMAC when 50 percent of TAC is reached to update the Committee on current landing, to consult on priority of access on the inshore/offshore split of 60%/40%, and provide results of the genetic study on mackerel in area 3k.

The AMAC normally meets every two years and the management measures, including TAC, are established for a two-year cycle; however, the Committee has requested a one-year TAC for 2017. As such, the department plans to hold a conference call with AMAC, as requested in winter 2018, to review the 2017 harvest, evaluate new reporting requirements and discus additional science.

In September 2014, Atlantic mackerel was put on a priority list by the Committee on the Status of Endangered Wildlife in Canada given the rate of decline in the stock. The 2016 audit of the Commissioner of the Environment and Sustainable Development identified Mackerel as a critical stock requiring a rebuilding plan as part of the Integrated Fisheries Management Plan (IFMP) for Atlantic Mackerel. The department has already received widespread support from industry stakeholders to participate in a rebuilding plan working group for the mackerel fishery which will convene late spring/early summer. The IFMP for Atlantic mackerel which has been in effect since 2007 will be updated as this work progresses.

SCIENCE ADVICE

A stock assessment for Atlantic Mackerel was conducted March 8-9, 2017. The current spawning stock biomass was estimated at 48,000t for 2017, lower than the Limit Reference Point of 103,000t, placing Atlantic Mackerel in the Critical Zone of the Precautionary Approach framework. It was estimated that unreported/undeclared catches (recreational, bait, discard mortality and a portion of the American landings) averaged approximately 6,000t in recent years, in addition to commercial landings. This means that with a commercial TAC of 8,000t, total

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landings, including the undeclared estimate, were approximately 14,000t in 2016. According to the assessment, Atlantic Mackerel spawning stock biomass has increased slightly since reaching a historical low in 2012. DFO Science has recommended that, because the stock remains in the critical zone, total catches (declared and unreported) should be low enough to facilitate stock recovery.

Modelled stock projections over a two-year assessment period (2017-2019) indicate that total landings of 16,000t (10,000t TAC and up to 6,000t undeclared catches) [redacted] that the Atlantic Mackerel spawning stock biomass would continue to increase in abundance over current levels. This corresponds to a high probability of growth, as defined in DFO's Precautionary Approach framework (high = 75-95%).

DFO Science has also noted that improved data collection on unreported catches is a priority.

INTERDEPARTMENTAL CONSULTATIONS

No interdepartmental consultations were required.

INDIGENOUS CONSULTATIONS

Indigenous groups are represented as members on the Atlantic Mackerel Advisory Committee. In addition, a supplementary meeting was held to permit additional consultation with indigenous groups.

EXTERNAL CONSULTATIONS

The Department consulted with representatives of the mackerel industry, including harvesters and processors, industry associations, the Atlantic Provinces and Quebec.

ADVICE AND RECOMMENDATIONS TO MINISTER

It is recommended that you approve at TAC of 16,000t (consisting of 10,000t for the commercial fishery and 6,000t for unreported catches) for the Atlantic Mackerel fishery.

The Department will establish a Mackerel Rebuilding Plan Working Group that will focus on setting parameters for restoring the abundance of the stock.

Media lines will be prepared in response to the release of TAC measures.

Catherine Blewett
Deputy Minister

Kevin Stringer
Associate Deputy Minister

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☐ I concur with the recommendations

☐ I do not concur with the recommendations

_____

Dominic LeBlanc
Minister

Minister's Comments:

1) Attachments:

Page 2786

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Fisheries and Oceans Canada
Deputy Minister

Pêches et Océans Canada
Sous-ministre

s.21(1)(b)

UNCLASSIFIED
2017-045-00376
EKME #: 3766140

MEMORANDUM FOR THE MINISTER

2017 ATLANTIC MACKEREL MANAGEMENT MEASURES
(FOR DECISION)

SUMMARY OF ADVICE TO MINISTER

This memo seeks your approval of the Total Allowable Catches (TAC) for the mackerel fishery in Atlantic Canada and Quebec, and outlines next steps for improved reporting and a rebuilding plan for this fishery. A map of Atlantic mackerel harvesting areas is provided at TAB 1.

On March 30, 2017, the Atlantic Mackerel Advisory Committee (AMAC) met to discuss the TAC levels and other key management issues for this fishery. A supplementary meeting for aboriginal groups was also held on March 28, 2017. At these meetings Science presented results of a recently completed peer-reviewed stock assessment for Mackerel in Canadian waters (TAB 2). Results from a new assessment model indicate that the stock continues to remain in the critical zone. Stock projections are at the end of Tab 2.

AMAC was unable to reach a consensus on a TAC recommendation for the 2017 and 2018 fishery. Commercial harvesters and the provinces put forth recommendations to increase the total catch to 20,000t or 36,000t, which also includes undeclared catch, estimated at 6,000t per year under current monitoring. Aboriginal organizations suggested a closure of the fishery while it remains in the critical zone and non-government organizations requested implementing a low TAC.

Unreported landings in bait and some commercial fisheries and unknown harvests from the recreational fishery are continuing to impact the stock assessment. AMAC members agree that monitoring and reporting of catches for this fishery must be improved The department is actively undertaking measures to improve catch reporting for the commercial and bait fisheries in 2017 and beyond (TAB 3).

It is recommended that you set the 2017 commercial TAC at 10,000t for one year. This represents a modest increase from the 8,000t TAC set in 2016 for the commercial fishery, and with an estimated 6,000t for unreported catches, it would result in an estimated 16,000t total catch. The Atlantic Mackerel stock has a high probability of growth [redacted] under this harvest level over the coming year, and it strikes a balance between projected positive growth of the stock and the economic importance of the fishery. This should also encourage better reporting as well as promote participation in a rebuilding plan working group.

Canada

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s.21(1)(b)

BACKGROUND

The Atlantic Mackerel stock is a trans-boundary stock found in both Canadian and United States (US) waters (map at TAB 1). Mackerel is fished in Canadian waters on a fully competitive basis, with an inshore/offshore split of 60%/40% respectively. There is no regional sharing arrangement in place. Fish that form the Canadian stock overwinter in the US waters.

The Integrated Fisheries Management Plan indicates a priority of access to licence holders with vessels less than 65' (the inshore fleet) for up to 60% of the Total Allowable Catch (TAC) over the licence holders member of the fleet having vessels 65' and over (the offshore fleet). The priority of access of the mackerel fishery given to the inshore fleet was an initiative to help protect the inshore sector and traditional inshore markets and includes a consideration to allow the inshore fleet to continue to harvest even after they have 60% of the TAC if the >65' fleet had not harvested all of their 40%.

Total reported commercial landings in Atlantic Canada have decreased significantly in recent years, from a high of 54,621t in 2005 to record low 4,145t in 2015. During the same time frame, TAC levels have followed the landings trajectory and resulted in a reduction from 36,000t in 2013 to a low of 8,000t per year over the past two years. The TAC has never limited landings until 2016.

In 2016, the TAC was reached and the fishery was closed in season for the first time ever. Commercial landings averaged just over 5,000t per year in 2014 and 2015. Significant catches by the Newfoundland inshore fleet, with the majority in 3K, in early October 2016, lead to a closure the fishery. It is important to note that the appearance of mackerel in 3K is not typical and it appears periodically.

There was significant negative reaction following the closure of the mackerel fishery as the offshore fleet (>65' large seiners) did not have an opportunity to fish in 2016 as they were just starting when the Department closed the fishery. Harvesters in 3K indicated that there was a large stock of mackerel still in the waters in this area when the fishery closed. Harvesters have also noted the that mackerel in area 3K in the east coast of Newfoundland and Labrador have a different appearance than the mackerel on the west coast and could be from a different stock, such as European mackerel (Science would like to remove).

The decision to allow the inshore fleet to continue harvesting without some consultation with the >65' fleet has resulted in a Judicial Review (JR) by the >65' purse seine licence holders

The 2014 Science stock assessment indicated that annual catches in 2014 and 2015 should not exceed 800t per year in the commercial fishery. The absolute values of biomass from the 2014 assessment model were seen to be underestimated and lacked credibility due to undeclared catches. Science developed a new model for the most recent assessment which account for

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undeclared catches. The new model shows some stock growth since 2012 and that there are some early signs of good recruitment coming into the fishery.

The stock assessment, includes a range of harvest scenarios and associated growth projections, and developed a Limit Reference Point for Atlantic mackerel (TAB 2). The stock is still well within the critical zone as defined by the Precautionary Approach (PA) Framework. It is understood that total catches (undeclared and declared) should not inhibit continued growth with an aim of getting out of the critical zone. Declared catches (addressed by TACs) represent commercial landings and some bait catches, while undeclared catches are unreported from some commercial and bait fisheries as well as recreational harvests. There are currently no restrictions on the amount of catch and no closed season for recreational harvests of mackerel. Science continues to note concerns with undeclared harvests, which could be significant given the current low biomass. It is important to note that as reporting should improve this year, the level of undeclared catch should decline and declared catches would rise by the same amount. Therefore, with better reporting over time, a higher portion of the overall catch would be available for the commercial fishery.

Results of the stock assessment were presented at AMAC. While the new model was viewed more favorably by stakeholders than the previous model, industry was of the view that it severely underestimated the overall biomass. Fishermen have reported a significant number of small fish throughout the Gulf of St. Lawrence in 2016 which could be the sign of good recruitment.

At AMAC, commercial harvesters put forth recommendations to increase total catch to 20,000t or 36,000t, inclusive of undeclared catch; however, these levels do not promote growth of the stock in line with DFO's PA Framework. Aboriginal groups suggested a closure of the fishery while the stock remains in the critical zone; while the Ecology Action Center and the World Wildlife Fund have requested a low total catch (declared and undeclared) of 8,000t while the stock remains in the critical zone.

The AMAC normally meets every two years and the management measures, including TAC, are established for a two-year cycle. However, the Committee has requested a one year TAC for 2017 and to revisit the management plan for 2018 despite no new assessment being undertaken until 2019.

The current TAC for the US is currently set at 9,822t for 2017

Science is working with their southern counterparts on a Canada/US joint stock assessment for 2019.

STRATEGIC CONSIDERATIONS

Harvesters will not react favorably to a TAC of 10,000t as it is far below requests from industry, particularly in NL where a 36,000t total catch was recommended. Based on migration, the fish arrives last in NL, typically in late September after other provinces have had several months of harvesting. The Department recommends a more conservative 10,000t TAC, allowing a high

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probability of growth. This represents a balance between projected positive growth in the stock, yet recognizing the economic value of the fishery and its importance as a bait source. A slight increase in TAC may encourage better reporting and support industry participation in a rebuilding plan for the fishery. This conservative approach is also in line with the government mandate that all fisheries management decisions be supported by sound science.

There may be some negative interaction, including from non-government organisations, to the small increase in TAC. According to the Department's PA Policy, removals should be kept at the lowest possible level when a stock is in the critical zone.

A TAC of 10,000t for the commercial fishery represents only a modest increase in the TAC from 8000t in 2016. Better reporting in 2017, most specifically in the Southern Gulf, should result in upwards of 1,000t moving from undeclared to the commercial declared category.

Science has undertaken a genetic study of mackerel in the 3K area, to investigate whether mackerel in this area could be from the European stock, which has strong population numbers. Results are expected to be available in late summer 2017.

Undeclared harvests in the bait and recreational fisheries continue to represent a challenge in the assessment and management of the fishery. The department is currently analysing options for the inclusion mackerel as a potential stock to be included under Marine Recreational Fishing Licence for Eastern Canada to establish harvest limits and improve reporting of this fishery.

In 2016, harvesters were critical of the rapid and unexpected closure of the fishery. In order to mitigate this situation next season the Department has started implementing measures to enhance monitoring and timely data collection, particularly in the Gulf and Maritimes Regions (Regional summary table of monitoring Tab 3). In addition, the department intends to hold a conference call with AMAC when 50% of established commercial TAC is reached to update the Committee on landings, to consult on priority of access on the inshore/offshore split of 60%/40%, and if available, provide results of the genetic study on mackerel in area 3K. This mid-season consultation with AMAC may assist in the Department's ability to come to a settlement agreement with the >65' purse seine fleet in terms of their current JR.

AMAC normally meets every two years and the management measures, including TAC, are established for a two-year cycle; however, the Committee has requested a one-year TAC for 2017. As such, the department plans to hold a conference call with AMAC, as requested in winter 2018, to review the 2017 harvest and evaluate the effectiveness of new reporting requirements.

In September 2014, Atlantic mackerel was put on a priority list by the Committee on the Status of Endangered Wildlife in Canada given the rate of decline in the stock. The 2016 audit of the

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Commissioner of the Environment and Sustainable Development identified Mackerel as a stock in the critical zone requiring a rebuilding plan as part of the Integrated Fisheries Management Plan (IFMP) The department has already received widespread support from industry stakeholders to participate in a rebuilding plan working group for the mackerel fishery which will convene late spring/early summer 2017. The IFMP for Atlantic mackerel, which has been in effect since 2007, will be updated in advance of the 2019 AMAC meeting.

SCIENCE ADVICE

A stock assessment for Atlantic Mackerel was conducted March 8-9, 2017. The current spawning stock biomass was estimated at 48,000t for 2017, lower than the Limit Reference Point of 103,000t, placing mackerel in the critical zone of the PA framework. The model estimated that unreported/undeclared catches (recreational, bait, discard mortality and a portion of the American landings) averaged approximately 6,000t in recent years, in addition to commercial landings. This means that with a commercial TAC of 8,000t, total landings, including the undeclared estimate, were approximately 14,000t in 2016. According to the assessment, mackerel spawning stock biomass has increased slightly since reaching a historical low in 2012. Science has recommended that, because the stock remains in the critical zone, total catches (declared and unreported) should be low enough to facilitate stock recovery. Science has also noted that improved data collection on unreported catches is a priority.

Modelled stock projections over a two-year assessment period (2017-2019) indicate that total landings of 16,000t (10,000t TAC and up to 6,000t undeclared catches) [redacted] the mackerel spawning stock biomass would continue to increase in abundance over current levels. This corresponds to a high probability of growth, as defined in DFO's PA framework (high = 75-95%).

INTERDEPARTMENTAL CONSULTATIONS

No interdepartmental consultations were required.

INDIGENOUS CONSULTATIONS

Indigenous groups are represented as members on the AMAC. In addition, a supplementary meeting was held to permit additional consultation with indigenous groups.

EXTERNAL CONSULTATIONS

The Department consulted with representatives of the mackerel industry, including harvesters and processors, industry associations, the Atlantic Provinces and Quebec.

ADVICE AND RECOMMENDATIONS TO MINISTER

It is recommended that you approve a TAC of 10,000t for the Atlantic Mackerel fishery for 2017.

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The Department will establish the process to review the fishery when landings reach 50% (5,000t) of this established commercial TAC. Additionally, a Mackerel Rebuilding Plan Working Group will be convened that will focus on setting an Upper Stock Reference point as well as harvest control rules to support rebuilding this stock into the healthy zone of the PA Framework. A meeting of AMAC will occur, via conference call, in the spring of 2018 to solicit industry advice for 2018.

Media lines will be prepared in response to the release of TAC measures.

Catherine Blewett
Deputy Minister

Kevin Stringer
Associate Deputy Minister

☐ I concur with the recommendations

☐ I do not concur with the recommendations

Dominic LeBlanc
Minister

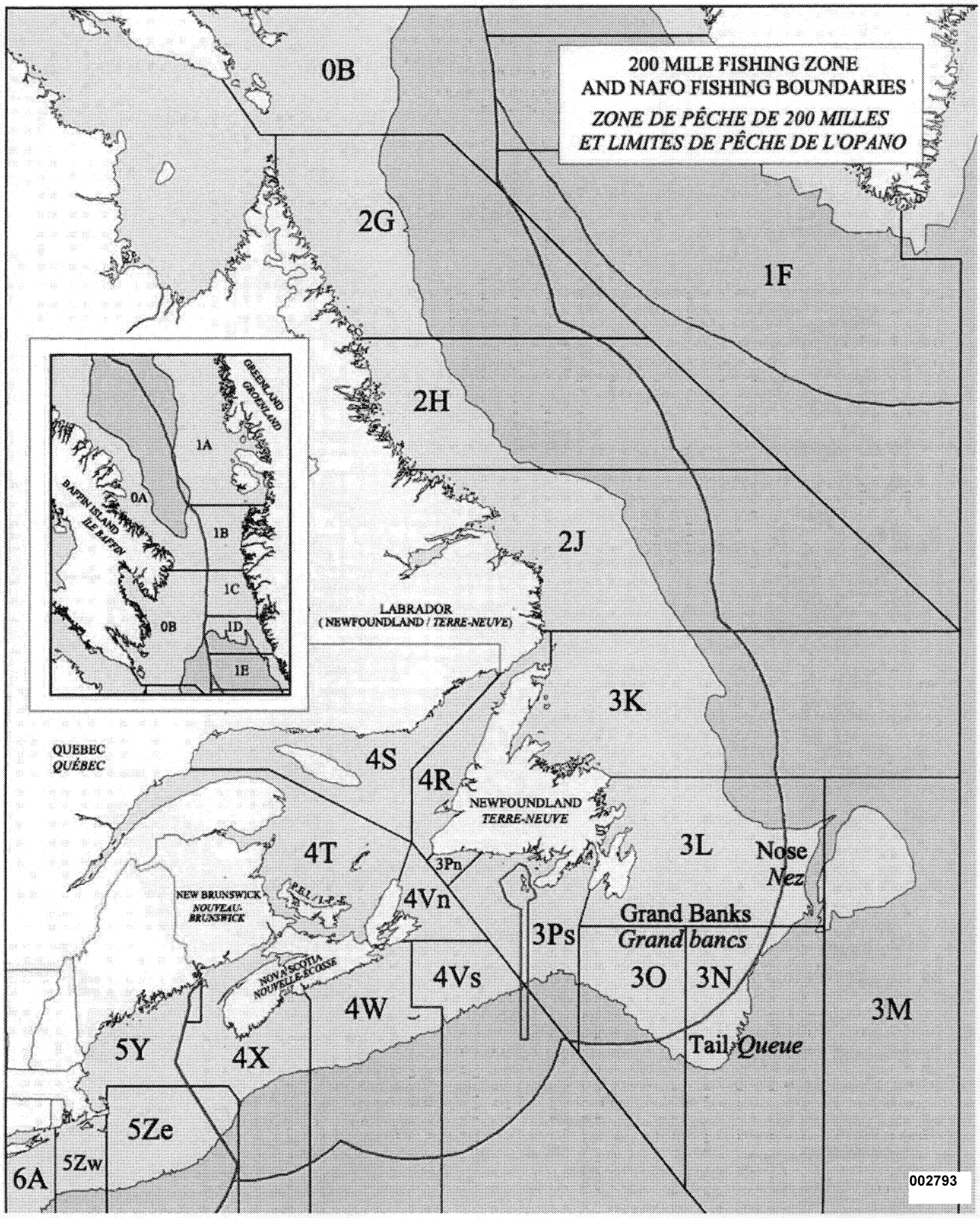
Minister's Comments:

1) Attachments:

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TAB 1

NAFO



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Catch Monitoring in the Regions:

Gulf

The Gulf Region has mainly relied on purchase slips from buyers for data collection. In addition the Region has obtained very limited success with logbook returns (2330 licences were available in 2016 in Gulf).

Lmited landings have been recorded in the Gulf region for the past two years (approx..1200 t)……

The following monitoring measures are being considered by the Gulf Region for the upcoming mackerel fishing season:

For the **commercial mackerel fishery**:

1) Implement mandatory hail in (100%) with catch estimate;
2) 25% DMP.

For the **bait fishery**:

3) Promote fishers to fill their bait monitoring document as indicated in the licence condition - weigh-out sheet
4) Daily catch limit (907 kg)

NL

For Mackerel Fishing Areas 1-14, 100% dockside monitoring is in effect except for all gear types with the exception of fixed gear (handline and gillnets in MFAs 1-11) :

- Bait – the NL region will be implementing mandatory bait logbooks in 2017, mackerel may be taken as bait in 2K3KLPs. *(only change in reporting for NL region)*
- Commercial mackerel fish harvesters operating vessels >35' must complete a commercial fishing log.
- All fixed and mobile gear licence holders fishing commercial mackerel in NAFO Divisions 2J3KLPs and 4R3Pn are subject to a Dockside Monitoring program as outlined in Schedule 32.
- The mobile gear (Purse Seine fleet) is subject to industry funded at-sea observer coverage.

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Fisheries and Oceans Canada
Pêches et Océans Canada

Deputy Minister
Sous-ministre

s.21(1)(b)

UNCLASSIFIED
2017-045-00376
EKME #: 3766140

MEMORANDUM FOR THE MINISTER

2017 ATLANTIC MACKEREL MANAGEMENT MEASURES
(FOR DECISION)

SUMMARY OF ADVICE TO MINISTER

This memo seeks your approval of the Total Allowable Catch (TAC) for the mackerel fishery in Atlantic Canada and Quebec, and outlines steps for improved reporting and a rebuilding plan for the fishery. A map of Atlantic mackerel harvesting areas is at TAB 1.

On March 30, 2017, the Atlantic Mackerel Advisory Committee (AMAC) met to discuss the TAC levels and other key management issues for this fishery. A supplementary meeting for Indigenous groups was also held on March 28, 2017. At these meetings Science presented results of a recently completed peer-reviewed stock assessment for Mackerel in Canadian waters (TAB 2). Results from a new stock assessment model indicate that while there is some growth in the biomass, the stock continues to be in the critical zone. Stock projections are at the end of Tab 2.

Commercial harvesters and the provinces put forth recommendations to increase the total catch to 20,000t or 36,000t, which also includes undeclared catch, estimated at 6,000t per year under current monitoring. Indigenous organizations suggested a closure of the fishery while it remains in the critical zone and non-government organizations requested implementing a low TAC.

Unreported landings in bait and some commercial fisheries and unknown harvests from the recreational fishery are continuing to impact the stock assessment. AMAC members agree that monitoring and reporting of catches for this fishery must be improved. The department is actively undertaking measures to improve catch reporting for the commercial and bait fisheries in 2017 and beyond (TAB 3).

[redacted] The Atlantic Mackerel stock has a high probability of growth [redacted] under this harvest level over the coming year, and it strikes a balance between projected positive growth of the stock and the economic importance of the fishery.

Canada

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BACKGROUND

The Atlantic Mackerel stock is a trans-boundary stock found in both Canadian and United States (US) waters (map at TAB 1). Mackerel is fished in Canadian waters on a fully competitive basis, with an inshore/offshore split of 60%/40% respectively. There is no regional sharing arrangement in place. Fish from the Canadian stock overwinter in the US waters.

Total reported commercial landings in Atlantic Canada have decreased significantly in recent years, from a high of 54,621t in 2005 to record low 4,145t in 2015. During the same time frame, TAC levels have followed the landings trajectory and resulted in a reduction from 36,000t in 2013 to a low of 8,000t per year over the past two years.

The 2014 stock assessment for mackerel indicated that the biomass of the stock was estimated to be at the lowest ever on record and the stock was well into the critical zone of the Precautionary Approach (PA) Framework. Unknown catches in bait and recreational fisheries and some unaccounted commercial harvests have impaired the stock assessment for many years. For the 2017 stock assessment, science developed a new model which can account for undeclared catches. Results of the assessment were presented to the March 30, 2017 meeting of the Atlantic Mackerel Advisory Committee. The new model shows some stock growth since 2012 and that there are some early signs of good recruitment coming into the fishery. The stock remains within the critical zone as defined by the PA

While the new assessment model was viewed more favorably by stakeholders than the previous assessment approach, industry was of the view that it severely underestimated the overall biomass. Fishermen have reported a significant number of small fish throughout the Gulf of St. Lawrence in 2016 which could be a sign of good incoming recruitment.

The latest assessment provided a range of harvest scenarios and associated growth projections, as well as developing a Limit Reference Point for Atlantic mackerel (TAB 2). It is understood that total catches (undeclared and declared) should not inhibit continued growth with an aim of getting out of the critical zone. Declared catches (addressed by TACs) represent commercial landings and some bait catches, while undeclared catches are unreported from some commercial harvesters, bait catches as well as recreational harvests. There are currently no restrictions on the amount of catch and no closed season for recreational harvests of mackerel.

Science continues to note concerns with undeclared harvests, which could be significant given the current low biomass. Science has worked with their southern counterparts in the most recent assessment and they are working towards a Canada/US joint stock assessment for 2019.

In 2016, the commercial TAC was reached and the fishery was closed in-season for the first time ever. The TAC had never limited landings until 2016. Commercial landings averaged just over 5,000t per year in 2014 and 2015. Significant catches by the Newfoundland inshore fleet, with the majority in 3K, in early October 2016, lead to a closure the fishery. It is important to note that the appearance of mackerel in 3K is not typical and it appears periodically.

The Integrated Fisheries Management Plan indicates a priority of access to licence holders with

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vessels less than 65' (the inshore fleet). It also references a 60/40 split of the quota between the inshore and offshore (vessels 65') fleets. The priority of access of the mackerel fishery given to the inshore fleet was an initiative to help protect the inshore sector and traditional inshore markets and includes a consideration to allow the inshore fleet to continue to harvest even after they have 60% of the TAC landed if the >65' fleet had not harvested all of their 40%.

The decision to allow the inshore fleet to continue harvesting in 2016 without some consultation with the >65' fleet has resulted in a Judicial Review (JR) of that decision by the >65' purse seine licence holders who are seeking damages, for loss of fishing opportunity in 2016.

There was significant negative reaction following the closure of the mackerel fishery as the inshore fleets believe that the stock is healthy and the offshore fleet (>65' large seiners) did not have an opportunity to fish in 2016 as they were just starting when the Department closed the fishery with the TAC having been reached. Harvesters in 3K indicated that there was a large stock of mackerel still in the waters in this area when the fishery closed.

At AMAC, commercial harvesters put forth recommendations to increase total catch to 20,000t or 36,000t, inclusive of undeclared catch; however, these levels do not promote growth of the stock in line with DFO's PA Framework. Indigenous groups suggested a closure of the fishery while the stock remains in the critical zone; while the Ecology Action Center and the World Wildlife Fund have requested a low total catch (declared and undeclared) of 8,000t while the stock remains in the critical zone.

In discussions with the AMAC in 2007, in the development of the Integrated Fisheries Management Plan (IFMP), inshore representatives indicated that they would like to reduce or eliminate the TAC share for the exploratory fishing in light of a proposed reduced TAC. At that time the TAC was proposed to be reduced from 75,000t to 50,000t although a TAC reduction did not occur until 2010. Also during the discussions in 2007, the majority view among AMAC members was that the quota sharing of 40% for the "exploratory mobile gear fishery" versus 60% for "traditional inshore fisheries" should be flexible, i.e. there should be allowance for the traditional inshore fisheries to exceed 60% of the overall catch.

closing the fishery to all fleets which resulted in a Judicial Review (JR) of this decision by the four offshore >65' purse seine licence holders from Newfoundland and Labrador and one from New Brunswick. This JR is ongoing

STRATEGIC CONSIDERATIONS

Harvesters will not react favorably to a commercial TAC of 12,000t as it is far below requests from industry, particularly in NL where a 36,000t total catch was recommended. Based on migration, the fish arrives last in NL, typically in late September after other provinces have had several months of harvesting. If fish show up in both eastern and western NL this year, there may be a requirement to close the fishery late in the fall again this year.

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The Department recommends a more conservative TAC given the stock is assessed as continuing to be in the critical zone and thus in line with the Precautionary Approach Framework, there needs to be a high probability (75-95%), of the stock growing out of the Critical zone within a reasonable timeframe. Based on Science projections, with average incoming recruitment, [redacted] This catch level represents a balance between projected positive growth in the stock while recognizing the economic value of the fishery and its importance as a bait source. The increase may encourage better reporting and could encourage industry participation in a rebuilding plan for the stock. This conservative approach is also in line with the government mandate that all fisheries management decisions be supported by sound science.

There may be some negative reaction, including from non-government organizations, to the TAC increase given the stock is assessed to be in the critical zone.

Undeclared harvests represent a challenge in the assessment and management of the fishery. In the commercial fishery, the Department is working is implementing mandatory hails of catches with some level of dockside monitoring (approximately 25%) for the fishery in the southern Gulf to eliminate the use of purchase slips a source of catch data. This and increased reporting frequency in other areas will allow for a more timely and complete commercial catch numbers. The department is currently analysing options for the inclusion mackerel as a potential stock to be included under Marine Recreational Fishing Licence for Eastern Canada to establish harvest limits and improve reporting of this fishery. [redacted]

[redacted]. With better reporting in 2017, most specifically in the Southern Gulf, this should result in reduce undeclared in the commercial fishery (of an estimated 1,000t+). Improve reporting this year, the level of undeclared catch should decline and declared catches could rise by the same amount. Therefore, with better reporting, a higher portion of the overall catch would be available for the commercial fishery.

In 2016, harvesters were critical of the rapid and unexpected closure of the fishery. In order to mitigate this situation next season the Department has started implementing measures to enhance monitoring and timely data collection, particularly in the Gulf and Maritimes Regions (Regional summary table of monitoring Tab 3). In addition, in 2017, the department intends to hold a conference call with AMAC when 50% of established commercial TAC is reached. This call will allow the Department to consult on on the inshore/offshore split of 60%/40% as well as the clause in the IFMP that consideration will be given to allow the inshore to continue fishing if the offshore fleet has not caught its allocation. This would ensure a formal consultation before contemplating any measure that would modify the 40% share of the TAC to which the greater than 65' fleet is entitled to in the IFMP. This mid-season consultation with AMAC may assist in the Department's ability to come to a settlement agreement with the >65' purse seine fleet in terms of their current JR.

Despite concerns expressed from inshore harvesters on the inshore/offshore 60%/40% sharing arrangement in 2007 when a TAC reduction from 75.000 to 50,000t was being contemplated, no

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fleet expressed any concern with that split at the most recent AMAC meeting even at the recent low level of TAC

In September 2014, Atlantic mackerel was put on a priority list by the Committee on the Status of Endangered Wildlife in Canada given the rate of decline in the stock. The 2016 audit of the Commissioner of the Environment and Sustainable Development identified Mackerel as a stock in the critical zone requiring a rebuilding plan as part of IFMP. The department has received widespread interest from industry stakeholders to participate in a rebuilding plan working group for the mackerel fishery which will convene late spring/early summer 2017. The IFMP for Atlantic mackerel, which has been in effect since 2007, will be updated in advance of the 2019 AMAC meeting.

While not discussed at the most recent AMAC, it would be prudent to consider a freeze on the issuance of new mackerel licences until this can be more fully considered, in light of a rebuilding plan, given that current capacity far exceeds the available harvest level.

SCIENCE ADVICE

A stock assessment for Atlantic Mackerel was conducted March 8-9, 2017. The current spawning stock biomass was estimated at 48,000t for 2017, lower than the Limit Reference Point of 103,000t, placing mackerel in the critical zone of the PA framework. The model estimated that unreported/undeclared catches (recreational, bait, discard mortality and a portion of the American landings) averaged approximately 6,000t in recent years, in addition to commercial landings. This means that with a commercial TAC of 8,000t, total landings, including the undeclared estimate, were approximately 14,000t in 2016. According to the assessment, mackerel spawning stock biomass has increased slightly since reaching a historical low in 2012. Science has recommended that, because the stock remains in the critical zone, total catches (declared and unreported) should be low enough to facilitate stock recovery. Science has also noted that improved data collection on unreported catches is a priority.

Modelled stock projections over a two-year assessment period (2017-2019) indicate that total landings of 16,000t (10,000t TAC and up to 6,000t undeclared catches) [redacted] the mackerel spawning stock biomass would continue to increase in abundance over current levels. This corresponds to a high probability of growth, as defined in DFO's PA framework (high = 75-95%).

INTERDEPARTMENTAL CONSULTATIONS

No interdepartmental consultations were required.

INDIGENOUS CONSULTATIONS

Indigenous groups are represented as members on the AMAC. In addition, a supplementary meeting was held to permit additional consultation with indigenous groups.

EXTERNAL CONSULTATIONS

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s.21(1)(b)

The Department consulted with representatives of the mackerel industry, including harvesters and processors, industry associations, the Ecology Action Center, the Atlantic Provinces and, Quebec.

ADVICE AND RECOMMENDATIONS TO MINISTER

It is recommended that you approve a TAC [redacted] for the Atlantic Mackerel fishery for 2017 and implement a temporary freeze on the issuance of any new mackerel licences.

The Department will establish the process to review the fishery when commercial landings reach 50% [redacted] of this established commercial TAC. Additionally, a Mackerel Rebuilding Plan Working Group will be convened that will focus on setting an Upper Stock Reference point as well as harvest control rules to support rebuilding this stock into the healthy zone of the PA Framework. A meeting of AMAC will occur, via conference call, in the spring of 2018 to solicit industry advice for 2018.

Media lines will be prepared in response to the release of TAC and other management measures.

Catherine Blewett
Deputy Minister

Kevin Stringer
Associate Deputy Minister

☐ I concur with the recommendations

☐ I do not concur with the recommendations

Dominic LeBlanc
Minister

Minister's Comments:

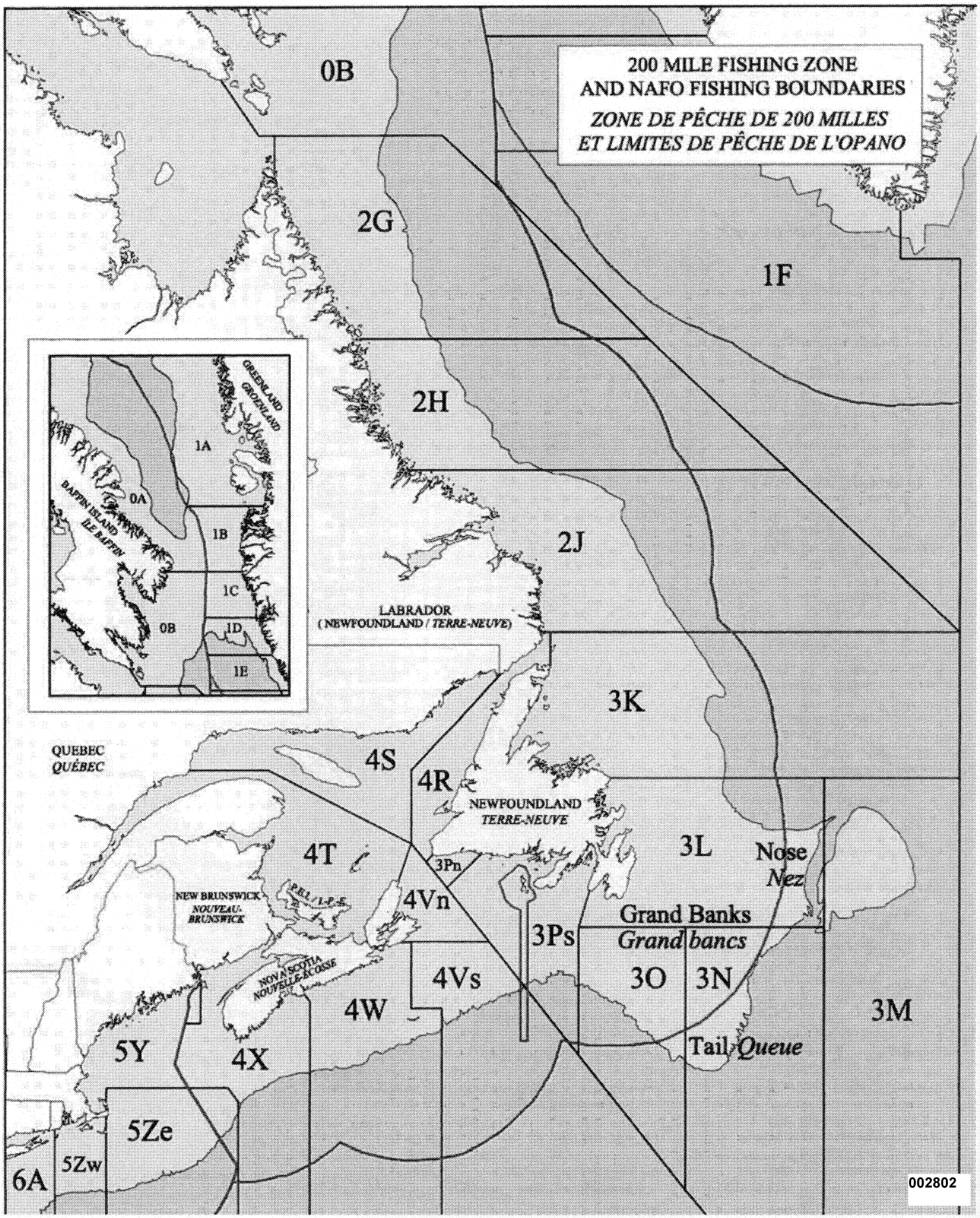
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TAB 1

NAFO



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Catch Monitoring in the Regions:

Gulf

The Gulf Region has mainly relied on purchase slips from buyers for data collection. In addition the Region has obtained very limited success with logbook returns (2330 licences were available in 2016 in Gulf with less an average of 50 per year being returned over the past 5 years).

Reported landings have been limited in the Gulf region for the past two years (approximately 1,200 t based on purchase slips only). It is understood that declared catches in the southern Gulf will increase significantly with enhanced reporting requirements by fishermen as opposed to the current approach where buyers provide data. This will also result in a more timely accounting for catches as purchase slips are often not often received and recorded into catch stats until well after season end.

The following monitoring measures are being considered for implementation by the Gulf Region for the 2017 mackerel fishing season:

For the **commercial mackerel fishery**:

1) Implement mandatory hail in (100%) with catch estimate;
2) 25% DMP.

For the **bait fishery**:

3) Promote fishers to fill their bait monitoring document as indicated in the licence condition - weigh-out sheet
4) Daily catch limit (907 kg)

NL

For Mackerel Fishing Areas 1-14, 100% dockside monitoring is in effect except for all gear types with the exception of fixed gear (handline and gillnets in MFAs 1-11) :

- Bait – the NL region will be implementing mandatory bait logbooks in 2017, mackerel may be taken as bait in 2K3KLPs. *(only change in reporting for NL region)*
- Commercial mackerel fish harvesters operating vessels >35' must complete a commercial fishing log.
- All fixed and mobile gear licence holders fishing commercial mackerel in NAFO Divisions 2J3KLPs and 4R3Pn are subject to a Dockside Monitoring program as outlined in Schedule 32.
- The mobile gear (Purse Seine fleet) is subject to industry funded at-sea observer coverage.

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Fisheries and Oceans Canada | Pêches et Océans Canada

Deputy Minister | Sous-ministre

s.21(1)(b)

UNCLASSIFIED
2017-045-00376
EKME #: 3766140v8

MEMORANDUM FOR THE MINISTER

2017 ATLANTIC MACKEREL MANAGEMENT MEASURES
(FOR DECISION)

SUMMARY OF ADVICE TO MINISTER

This memo seeks your approval of the Total Allowable Catch (TAC) for the mackerel fishery in Atlantic Canada and Quebec, and outlines steps for improved reporting and a rebuilding plan for the fishery. A map of Atlantic mackerel harvesting areas (Subareas 3-4) is at TAB 1.

On March 30, 2017, the Atlantic Mackerel Advisory Committee (AMAC) met to discuss the TAC levels and other key management issues for this fishery. A supplementary meeting for Indigenous groups was also held on March 28, 2017. At these meetings Science presented results of a recently completed peer-reviewed stock assessment for mackerel in Canadian waters (TAB 2). Results from a new stock assessment model indicate that while there is some growth in the biomass, the stock continues to be in the critical zone (approximately 50% of the Limit Reference Point). Stock projections at various harvests are at the end of Tab 2.

Commercial harvesters and the provinces put forth recommendations to increase the total catch to 20,000t or 36,000t, which also includes undeclared catch, estimated at 6,000t per year under current monitoring. Indigenous organizations suggested a closure of the fishery and non-government organizations requested implementing a much lower TAC of 8,000t (including undeclared catch) while the stock remains in the critical zone.

Unreported landings in some bait and commercial fisheries and unknown harvests from the recreational fishery continue to impact the stock assessment. AMAC members agree that monitoring and reporting of catches for this fishery must be improved. The department is actively undertaking measures to improve catch reporting for the commercial and bait fisheries in 2017 and beyond. This will include the introduction of new measures in the Gulf to institute accurate real-time reporting for 2017 with the future potential inclusion of mackerel in the national electronic logs system.

A Mackerel Rebuilding Plan Working Group will be convened with participation from AMAC members that will focus on setting an Upper Stock Reference point as well as harvest control rules to support rebuilding this stock into the healthy zone of the PA Framework.

It is recommended that you set the 2017 commercial TAC at 10,000t for one year. This represents a modest increase from the 8,000t TAC set in 2016 for the commercial fishery, and with an estimated 6,000t for unreported catches (bait, recreational, etc.) it could result in an estimated 16,000t total catch. It is expected that the level of unreported catches will reduce as catch monitoring is improved. The Atlantic Mackerel stock has a high probability of growth [redacted] under this harvest level over the coming year, and it strikes a balance between projected positive growth of the stock and the economic importance of the fishery.

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BACKGROUND

The Atlantic Mackerel stock is a trans-boundary stock found in Canadian and United States (US) waters (map at TAB 1) when Canadian spawned fish overwinter in US waters. Mackerel is fished in Canadian waters on a competitive basis within allocations of inshore/offshore split of 60%/40% respectively. There is no regional or provincial sharing arrangement.

Total reported commercial landings in Atlantic Canada have decreased significantly in recent years, from a high of 54,621t in 2005 to record low 4,145t in 2015. During the same time frame, TAC levels have followed the landings trajectory and resulted in a reduction from 36,000t in 2013, 10,000t in 2014 to a low of 8,000t per year over the past two years.

The 2014 stock assessment for mackerel indicated that the biomass of the stock was estimated to be at the lowest ever on record and the stock was well into the critical zone of the Precautionary Approach (PA) Framework. Unknown catches in bait and recreational fisheries and unaccounted commercial harvests have impaired the stock assessment for many years. The underestimation of catch resulted in an underestimation of overall stock size and a resulting low harvest level.

For the 2017 stock assessment, science developed a new model which can account for undeclared catches. This new model was informed by an internet survey and literature review of past bait and recreational use. The model was able to provide a real estimate of unreported catch, and produced significant higher biomass estimates than the previous model. The new model noted that the relative status of the stock is the same, i.e. lowest levels in the time series (20,000t) were in 2012, although an increase in biomass has been seen since 2012, with a current estimate of 48,000t. There are some early signs of good recruitment coming into the fishery, however, this good recruitment still has to be confirmed and the stock remains low within the critical zone.

Results of the assessment were presented to the March 30, 2017 meeting of the Atlantic Mackerel Advisory Committee. While the new assessment model was viewed more favorably by stakeholders than the previous assessment approach, industry was of the view that it severely underestimated the overall biomass. Fishermen have reported a significant number of small fish throughout the Gulf of St. Lawrence in 2016 which could be a sign of good incoming recruitment which won't be confirmed until at least this year.

The latest assessment provided a range of harvest scenarios and associated growth projections, as well it defined a Limit Reference Point for Atlantic mackerel (TAB 2). It is understood that total catches (undeclared and declared) should not inhibit continued growth with an aim of getting out of the critical zone in a reasonable time frame. Declared catches (addressed by TACs) represent commercial landings and some bait catches, while undeclared catches are some unreported commercial harvests, bait catches as well as recreational harvests. There are no measures to restrict catch and no closed season identified for recreational harvests of mackerel.

Science continues to note concerns with undeclared harvests, which could be significant given the current low biomass. Science has worked with their southern counterparts in the most recent assessment and they are working towards a Canada/US joint stock assessment for 2019.

In 2016, the commercial TAC was reached and the fishery was closed in-season for the first time ever. Since first established in 1987, the TAC had never limited landings until 2016. Commercial

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landings averaged just over 5,000t per year in 2014 and 2015. Significant catches by the Newfoundland inshore fleet, with the majority in 3K, in early October 2016, lead to a closure the fishery (NL catches were approximately 4,600t of the overall 8,000t catch). It is important to note that the appearance of mackerel in 3K is not typical as it appears periodically.

The Integrated Fisheries Management Plan for mackerel indicates a priority of access to licence holders with vessels less than 65' (the inshore fleet). It also references a 60/40 split of the quota between the inshore and offshore (vessels >65' seine) fleets. The priority of access to the mackerel fishery given to the inshore fleet was an initiative to help protect the inshore sector and traditional inshore markets and the Integrated Fisheries Management Plan (IFMP) includes a consideration to allow the inshore fleet to continue to harvest even after they have 60% of the TAC landed if the >65' fleet had not harvested all of their 40%

There was significant negative reaction following the closure of the mackerel fishery as the inshore fleets believe that the stock is healthy and the offshore fleet (>65' large seiners) did not have an opportunity to fish in 2016 as they were just starting when the Department closed the fishery with the TAC having been reached. Harvesters indicated that there was a significant amount of mackerel in Newfoundland waters during and for weeks after the fishery closed.

At AMAC, commercial harvesters put forth recommendations to increase total catch to 20,000t or 36,000t, inclusive of undeclared catch. Based on the stock assessment, harvests at these levels would not promote growth of the stock in line with DFO's PA Framework. Indigenous groups suggested a closure of the fishery while the stock is in the critical zone; while the Ecology Action Center and the World Wildlife Fund have requested a significant reduction in total catch (declared and undeclared) of 8,000t while the stock remains in the critical zone.

In discussions with the AMAC in 2007, in the development of the current IFMP, inshore representatives indicated that they would like to reduce or eliminate the TAC share for the exploratory (>65' fleet) fishing in light of a proposed reduced TAC. At that time the TAC was proposed to be reduced from 75,000t to 50,000t although the TAC was not reduced until 2010 with no change in sharing. Also during the discussions in 2007, the majority view among AMAC members was that the quota sharing of 40% for the "exploratory mobile gear fishery" versus 60% for "traditional inshore fisheries" should be flexible, i.e. there should be allowance for the traditional inshore fisheries to exceed 60% of the overall catch.

closing the fishery to all fleets. This decision was opposed by the >65' fleet.

STRATEGIC CONSIDERATIONS

Harvesters will not react favorably to a commercial TAC of 10,000t as it is far below industry requests based on their view of the health of the stock, particularly in NL where industry recommended a 36,000t total catch. Based on migration, the fish arrives in NL last, typically in late September after other provinces have had several months of harvesting. If fish show up in 3K again this year (noted above as atypical), there may be a requirement to close the fishery late in the fall again this year.

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The Department recommends a more conservative TAC than what was recommended by industry members given the stock is in the critical zone and in line with the PA Framework, there needs to be a high probability (75-95%), of the stock growing out of the Critical zone within a reasonable timeframe. Based on Science projections, with average incoming recruitment, [redacted] at an overall harvest of 16,000t. This catch level represents a balance between projected positive growth in the stock while recognizing the economic value of the fishery and its importance as a bait source. The limited increase may discourage better reporting and could limit industry interest in developing a rebuilding plan for the stock.

There may be some negative reaction, including from Indigenous groups and non-government organizations, to any TAC increase given the stock is assessed to be in the critical zone.

Undeclared harvests represent a challenge in the assessment and management of the fishery. In the commercial fishery, the Department is working on implementing mandatory hails of catches with some level of dockside monitoring (approximately 25%) for the fishery in the southern Gulf to eliminate the use of purchase slips a source of catch data. Fleets may strongly resist this change at a 10,000t TAC level. Increased reporting frequency in other areas will allow for a more timely and complete in-season commercial catch numbers.

A TAC of 10,000t for the commercial fishery represents a small increase in the TAC from 8,000t in 2016. With better reporting in 2017, most specifically in the Southern Gulf, this should result in reducing undeclared in the commercial fishery (an estimated 1,000t+) and the level of declared catch could rise by the same amount. Therefore, a higher portion of the overall catch would be available for the commercial fishery.

Despite concerns expressed from inshore harvesters on the inshore/offshore 60%/40% sharing arrangement in 2007 when a TAC reduction from 75,000 to 50,000t was being contemplated, no fleet expressed any concern with the current split at the most recent AMAC meeting even at the recent low level of TAC.

In 2016, harvesters were critical of the rapid and unexpected closure of the fishery. In order to mitigate this situation next season the Department has started implementing measures to enhance monitoring and timely data collection, particularly in the Gulf and Maritimes Regions. In addition, in 2017, the department intends to hold a conference call with AMAC when 50% of established commercial TAC is reached. This call will allow the Department to consult on the inshore/offshore split of 60%/40% as well as the clause in the IFMP that consideration will be given to allow the inshore to continue fishing if the offshore fleet has not caught its allocation. This would ensure a formal consultation before contemplating any measure that would modify the 40% share of the TAC to which the greater than 65' fleet is entitled to in the IFMP. Following the 60%/40% split would limit inshore <65' fleets to catches to 6,000t, significantly less than the 7,800t they caught in 2016.

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In September 2014, Atlantic mackerel was put on a priority list for future review by the Committee on the Status of Endangered Wildlife in Canada. The 2016 audit of the Commissioner of the Environment and Sustainable Development identified Mackerel as a stock in the critical zone requiring a rebuilding plan as part of IFMP. The department has received widespread interest from industry stakeholders to participate in a rebuilding plan working group for the mackerel fishery which will convene late spring/early summer 2017. The IFMP for Atlantic mackerel, which has been in effect since 2007, will be updated in advance of the 2019 AMAC meeting.

The department is currently analysing options for the inclusion of mackerel as a potential stock to be included under Marine Recreational Fishing Licence for Eastern Canada to establish recreational harvest limits and improve reporting of this fishery.

While not discussed at the most recent AMAC, it would be prudent to consider a freeze on the issuance of new mackerel licences until this can be considered, in light of a rebuilding plan.

SCIENCE ADVICE

A stock assessment for Atlantic Mackerel was conducted March 8-9, 2017. The current spawning stock biomass was estimated at 48,000t for 2017, lower than the Limit Reference Point of 103,000t, placing mackerel in the critical zone of the PA framework. The model estimated that unreported/undeclared catches (recreational, bait, discard mortality and a portion of the American landings) averaged approximately 6,000t in recent years, in addition to commercial landings. This means that with a commercial TAC of 8,000t, total landings, including the undeclared estimate, were approximately 14,000t in 2016. According to the assessment, mackerel spawning stock biomass has increased slightly since reaching a historical low in 2012. Science has recommended that, because the stock remains in the critical zone, total catches (declared and unreported) should be low enough to facilitate stock recovery. Science has also noted that improved data collection on unreported catches is a priority.

Modelled stock projections over a two-year assessment period (2017-2019) indicate that total landings of 16,000t (10,000t TAC and up to 6,000t undeclared catches) the mackerel spawning stock biomass would continue to increase in abundance over current levels over the next two years.

INTERDEPARTMENTAL CONSULTATIONS

No interdepartmental consultations were required.

INDIGENOUS CONSULTATIONS

Indigenous groups are represented as members on the AMAC. In addition, a supplementary meeting was held to permit additional consultation with indigenous groups.

EXTERNAL CONSULTATIONS

The Department consulted with representatives of the mackerel industry, including harvesters and processors, industry associations, the Ecology Action Center, the Atlantic Provinces and, Quebec.

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ADVICE AND RECOMMENDATIONS TO MINISTER

It is recommended that you approve a commercial TAC of 10,000t for the Atlantic Mackerel fishery for 2017 and implement a temporary freeze on the issuance of any new mackerel licences.

The Department will establish the process to review the fishery when commercial landings reach 50% (5,000t) of this established commercial TAC. Additionally, a Mackerel Rebuilding Plan Working Group will be convened that will focus on setting an Upper Stock Reference point as well as harvest control rules to support rebuilding this stock into the healthy zone of the PA Framework. A meeting of AMAC will occur, via conference call, in the spring of 2018 to solicit industry advice for 2018.

Media lines will be prepared in response to the release of TAC and other management measures.

Catherine Blewett
Deputy Minister

Kevin Stringer
Associate Deputy Minister

☐ I concur with the recommendations

☐ I do not concur with the recommendations

Dominic LeBlanc
Minister

Minister's Comments:

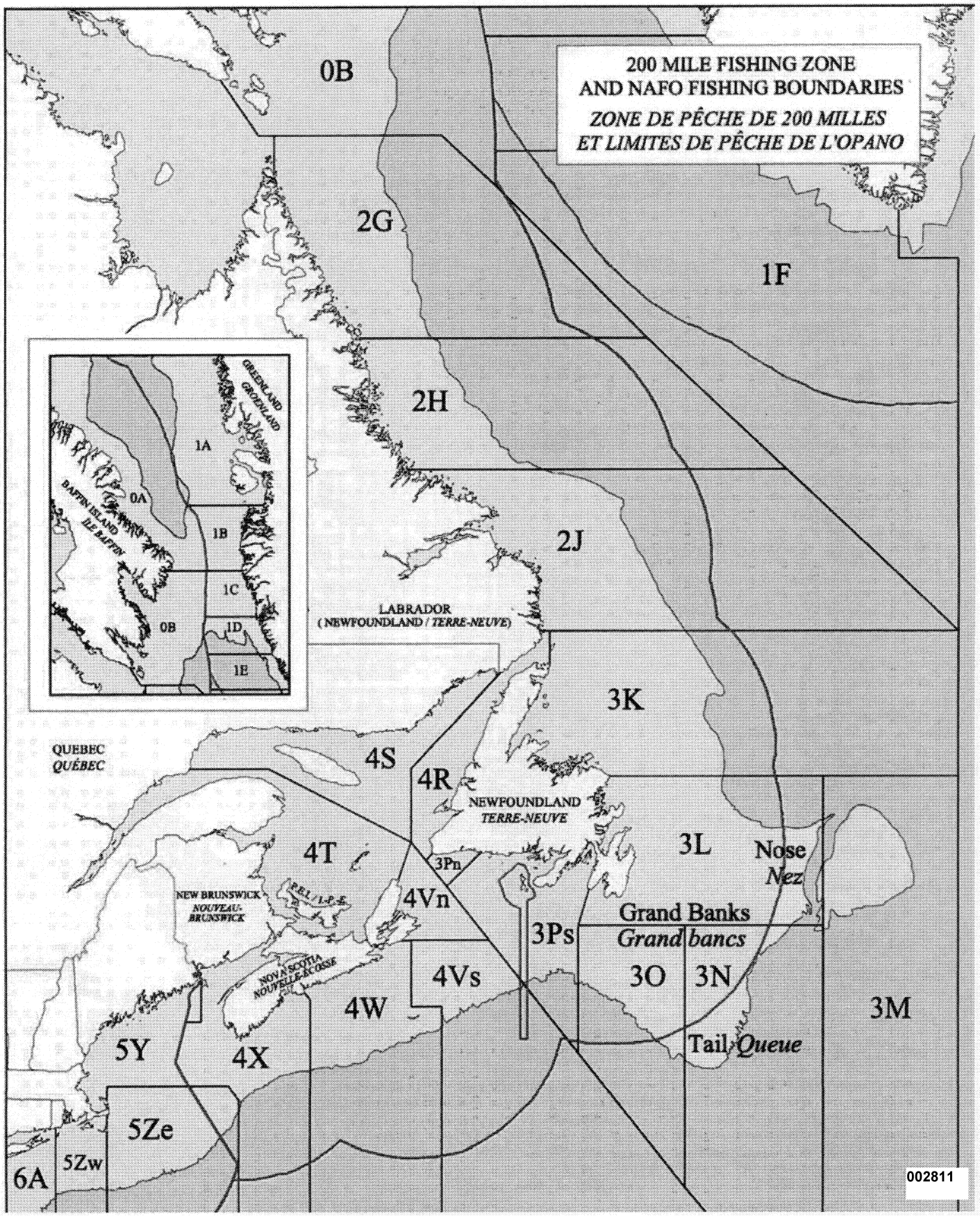
Attachments:
TAB 1 – Map of Mackerel Fishing Areas
TAB 2 – Science Assessment of Atlantic Mackerel

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TAB 1

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Bruxer, Shelby

From: Burns, Adam
Sent: May-09-17 4:49 PM
To: Lester, Brian; Jenkins, Randy
Subject: FW: Mackerel Media Tech Briefing

Reminder that this will need to occur, likely in the next couple of weeks at the latest. We'll need a deck on the management measures too.

From: Landry, Jean
Sent: May 9, 2017 4:47 PM
To: Vézina, Alain <Alain.Vezina@dfo-mpo.gc.ca>; Northcott, Jennifer <Jennifer.Northcott@dfo-mpo.gc.ca>; Burns, Adam <Adam.Burns@dfo-mpo.gc.ca>
Cc: Krohn, Martha <Martha.Krohn@dfo-mpo.gc.ca>; Marentette, Julie <Julie.Marentette@dfo-mpo.gc.ca>; White, Andrea <Andrea.White@dfo-mpo.gc.ca>
Subject: Mackerel Media Tech Briefing

Just talked to Yves few minutes ago. You will recall that MinO asked Science to plan for a media technical briefing associated to the upcoming decision on mackerel. His staff has worked on a deck. We should see their deck later tonight or tomorrow. Next step will be to validate the deck in collaboration with the region and then try to figure how/when the media briefing will be done.

Jennifer/Adam: as a heads-up.

Jean

Jean Landry

Director , Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Jean.Landry@dfo-mpo.gc.ca / Tel: 613-993-0029

Directeur, Sciences halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Jean.Landry@dfo-mpo.gc.ca / Tél. : 613-993-0029

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Canada

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s.19(1) s.21(1)(b)

Dunne, Erin

From: Dunne, Erin
Sent: May-09-17 6:07 AM
To: Blanchard, Tony
Subject: FW: MECTS-#3766140-v7-2017_ATLANTIC_MACKEREL_MANAGEMENT_MEASURES (3).DOCX

Tony, you may be aware of what our RDG is supportive of with the proposed TAC of 10000 + 4,000t undeclared.

The NL industry proposed 36,000t. With a TAC level of 10,000 tons, industry will not supportive and we can expect negativity from inshore and offshore. There is still uncertainty regarding the large seiners and the Barry Group. . This fishery won't be active here until the fall but we need to monitor and keep the RDG informed.

Erin

From: Dunne, Erin
Sent: May-08-17 3:35 PM
To: Rumbolt, Annette; Blanchard, Tony
Subject: Re: MECTS-#3766140-v7-2017_ATLANTIC_MACKEREL_MANAGEMENT_MEASURES (3).DOCX

No comments to add. We can expect a negative reactive to the TAC and pressure to seek additional quota should fish prove to abundant in 3K in 2017.
Sent from my BlackBerry 10 smartphone on the Bell network.

From: Rumbolt, Annette
Sent: Monday, May 8, 2017 2:42 PM
To: Blanchard, Tony; Dunne, Erin
Subject: RE: MECTS-#3766140-v7-2017_ATLANTIC_MACKEREL_MANAGEMENT_MEASURES (3).DOCX

I have no comments.

From: Blanchard, Tony
Sent: May-05-17 4:19 PM
To: Rumbolt, Annette; Dunne, Erin
Subject: MECTS-#3766140-v7-2017_ATLANTIC_MACKEREL_MANAGEMENT_MEASURES (3).DOCX

<< File: MECTS-#3766140-v7-2017_ATLANTIC_MACKEREL_MANAGEMENT_MEASURES (3).DOCX >> any comments?

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Waters, Christa

From: Berthier, Jacinta
Sent: May-09-17 12:58 PM
To: Waters, Christa; Wentzell, Doug
Cc: Docherty, Verna
Subject: RE: Mackerel Memo

Hi Christa,

It may be faster to ask for a copy of the memo sent to RDGs, then you can review and note if there are any new comments beyond what you previously provided to Doug and I.
Thanks,
Jacinta

From: Waters, Christa
Sent: Tuesday, May 9, 2017 12:19 PM
To: Berthier, Jacinta <Jacinta.Berthier@dfo-mpo.gc.ca>; Wentzell, Doug <Doug.Wentzell@dfo-mpo.gc.ca>
Cc: Docherty, Verna <Verna.Docherty@dfo-mpo.gc.ca>
Subject: FW: Mackerel Memo
Importance: High

Hello,
So, NHQ is asking us about response to the updated mackerel memo (sent to RDG's on Friday?), which was not sent to senior advisors. Not sure what you would like me to do, or if you need me to read and comment on.
Christa

From: Cawthray, Jenness
Sent: May-09-17 12:17 PM
To: Waters, Christa; Rivierre, Antoine; Dunne, Erin; Mallet, Pierre; Gaudet, Mario; Thomas, Tashina; Marentette, Julie
Cc: Lester, Brian
Subject: RE: Mackerel Memo

It was following a call with RDGs on Friday. Doug Wenzell was on from Maritimes. If there is no input from RDGs then it's fine too.

From: Waters, Christa
Sent: May-09-17 11:11 AM
To: Cawthray, Jenness; Rivierre, Antoine; Dunne, Erin; Mallet, Pierre; Gaudet, Mario; Thomas, Tashina; Marentette, Julie
Cc: Lester, Brian
Subject: RE: Mackerel Memo

Hello,
Is this on the original email circulated? Who are you waiting on me?
Christa

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From: Cawthray, Jenness
Sent: May-09-17 12:05 PM
To: Rivierre, Antoine; Dunne, Erin; Mallet, Pierre; Gaudet, Mario; Thomas, Tashina; Waters, Christa; Marentette, Julie
Cc: Lester, Brian
Subject: RE: Mackerel Memo
Importance: High

Hi All,
We were waiting for comments from RDGs on the memo by this morning. Can you follow up in your Regions to see if there are comments? We would like to move the memo this afternoon.
Thank you!
Jenness

From: Rivierre, Antoine
Sent: May-08-17 3:26 PM
To: Cawthray, Jenness; Dunne, Erin; Mallet, Pierre; Gaudet, Mario; Thomas, Tashina; Waters, Christa; Marentette, Julie
Cc: Lavoie, Pierre; Lester, Brian
Subject: RE: Mackerel Memo

Good for me !

Antoine

De : Cawthray, Jenness
Envoyé : May-08-17 2:20 PM
À : Dunne, Erin; Mallet, Pierre; Gaudet, Mario; Thomas, Tashina; Waters, Christa; Rivierre, Antoine; Marentette, Julie
Cc : Lavoie, Pierre; Lester, Brian
Objet : Mackerel Memo
Importance : Haute

Hi Folks,
Just wanted to let you know that it sounds like we will move forward with a 10,000 commercial TAC. If you have any concerns on this, please let me know ASAP. We are just waiting for final comments from the Regions, Science, and Legal before we finalize the memo tomorrow and move through approvals.
Thanks,

Jenness Cawthray
Senior Fisheries and Aquaculture Management Officer |
Agent principal, Gestion des pêches et de l'aquaculture
Fisheries and Oceans | Pêches et océans
200 rue Kent Street - 13S013 Ottawa, ON, K1A 0E6
Jenness.Cawthray@dfo-mpo.gc.ca
Telephone | Téléphone (613) 998-1524
Facsimile | Télécopieur (613) 990-7051
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s.21(1)(b)

Dunn, Patricia

From: Wentzell, Doug
Sent: May-09-17 5:28 PM
To: Valkenier, Mary-Ellen
Subject: RE: Mackerel TAC
Attachments: TAC Recommendation

Jenness and Sylvie are all aware of our position on this. We provided the attached and I reiterated our views on a call on Friday so, while the following clarifies Gulf's views, I don't see a need to engage at this point.

Doug

Doug Wentzell
Regional Director, Fisheries Management
Fisheries and Oceans Canada | Government of Canada
Doug.Wentzell@dfo-mpo.gc.ca | Telephone: 902-426-9962 | Facsimile: 902-426-7967

Directeur régional, Gestion des pêches
Pêches et Océans Canada | Gouvernement du Canada
Doug.Wentzell@dfo-mpo.gc.ca | Téléphone: 902-426-9962 | Télécopieur: 902-426-7967

From: Valkenier, Mary-Ellen
Sent: Tuesday, May 9, 2017 5:24 PM
To: Wentzell, Doug <Doug.Wentzell@dfo-mpo.gc.ca>
Cc: King, Rhea L <Rhea.King@dfo-mpo.gc.ca>; Berthier, Jacinta <Jacinta.Berthier@dfo-mpo.gc.ca>
Subject: RE: Mackerel TAC

Should we send a response to Serge's email?

From: Wentzell, Doug
Sent: May-09-17 5:22 PM
To: Valkenier, Mary-Ellen
Cc: King, Rhea L; Berthier, Jacinta
Subject: RE: Mackerel TAC

Hi Mary-Ellen,

[redacted] this stock is in the rebuilding phase and there are concerns around unreported catch in the amount of approx. 6,000t.

Given that the unreported catch cannot be verified, our thinking is that it may be better to use 2017 as a year to implement better reporting measures, to recognize the undeclared catch (which likely exists at some significant level) and to put measures in place to be able to address that in future years through better reporting. [redacted]

This recommendation should be non-constraining as the commercial catch hasn't exceeded that number since 2011 (see table below). [redacted]

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s.21(1)(b)

Year	TAC	Total Catch
2007	75000	53017
2008	75000	29671
2009	75000	42231
2010	60000	38753
2011	60000	11401
2012	36000	6468
2013	36000	7431 (science # is 8663)
2014	10000	6524
2015	8000	4145

Doug

Doug Wentzell
Regional Director, Fisheries Management
Fisheries and Oceans Canada | Government of Canada
Doug.Wentzell@dfo-mpo.gc.ca | Telephone: 902-426-9962 | Facsimile: 902-426-7967

Directeur régional, Gestion des pêches
Pêches et Océans Canada | Gouvernement du Canada
Doug.Wentzell@dfo-mpo.gc.ca | Téléphone: 902-426-9962 | Télécopieur: 902-426-7967

From: Valkenier, Mary-Ellen
Sent: Tuesday, May 9, 2017 4:21 PM
To: Wentzell, Doug <Doug.Wentzell@dfo-mpo.gc.ca>
Cc: King, Rhea L <Rhea.King@dfo-mpo.gc.ca>
Subject: FW: Mackerel TAC

Does this impact us?

From: Doucet, Serge
Sent: May-09-17 4:19 PM
To: Cawthray, Jenness
Cc: Valkenier, Mary-Ellen; Vincent, Guylaine; Vincent, Patrick; Burns, Adam; Anderson, Kevin; Quinn, Frank
Subject: Mackerel TAC

Jenness;

If you have any questions, please don't hesitate to reach out.

Have a great day.

Serge Doucet
Regional Director General /Directeur général régional

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Gulf Region / Région du Golfe
(506) 851-7750 /Cell (506) 871-9532/ facsimile / télécopieur (506) 851-7732
Serge.Doucet@dfo-mpo.gc.ca
Fisheries and Oceans Canada, Gulf Region / P.O. Box 5030, 343 Université Avenue, Moncton, NB E1C 9B6
Pêches et Océans Canada, Région du Golfe, C.P. 5030, 343, avenue de l'Université, Moncton (N.-B.) E1C 9B6
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s.21(1)(b)

Marentette, Julie

From: Landry, Jean
Sent: May-10-17 3:40 PM
To: Krohn, Martha; Marentette, Julie
Subject: Re: Mackerel Memo

Tks. I mentioned to Alain that it was a possibility. Let me know if you hear more.

Sent from my BlackBerry 10 smartphone on the Rogers network.

From: Krohn, Martha
Sent: Wednesday, May 10, 2017 3:02 PM
To: Marentette, Julie; Landry, Jean
Subject: RE: Mackerel Memo

Brian Lester has not heard this from his chain of command, but he did also hear that from the region. He will let us know if he hears anything more concrete.

From: Marentette, Julie
Sent: May-10-17 2:14 PM
To: Krohn, Martha; Landry, Jean
Subject: FW: Mackerel Memo

[redacted] Regional FM staff are reporting this information?

Best regards,

Julie Marentette, Ph.D.
Science Advisor, Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Julie.Marentette@dfo-mpo.gc.ca /Tel: 613-943-2098
Conseillère scientifique, Sciences des populations halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Julie.Marentette@dfo-mpo.gc.ca /Tél: 613-943-2098

From: Mallet, Pierre
Sent: May-10-17 2:12 PM
To: Waters, Christa; Rivierre, Antoine; Cawthray, Jenness; Dunne, Erin; Gaudet, Mario; Thomas, Tashina; Marentette, Julie
Cc: Lavoie, Pierre; Lester, Brian
Subject: Re: Mackerel Memo

Just heard that too

Sent from my BlackBerry 10 smartphone on the Rogers network.

From: Waters, Christa
Sent: Wednesday, May 10, 2017 3:09 PM

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s.21(1)(b)

To: Rivierre, Antoine; Cawthray, Jenness; Dunne, Erin; Mallet, Pierre; Gaudet, Mario; Thomas, Tashina; Marentette, Julie
Cc: Lavoie, Pierre; Lester, Brian
Subject: RE: Mackerel Memo

Hello,

[redacted]

Christa

Christa Waters
Regional Senior Fisheries Management Advisor
Resource Management | Gestion des Pêches
Maritimes Region | Région des Maritimes
Telephone | Téléphone 902-293-6541

From: Rivierre, Antoine
Sent: May-08-17 4:26 PM
To: Cawthray, Jenness; Dunne, Erin; Mallet, Pierre; Gaudet, Mario; Thomas, Tashina; Waters, Christa; Marentette, Julie
Cc: Lavoie, Pierre; Lester, Brian
Subject: RE: Mackerel Memo

Good for me !

Antoine

De : Cawthray, Jenness
Envoyé : May-08-17 2:20 PM
À : Dunne, Erin; Mallet, Pierre; Gaudet, Mario; Thomas, Tashina; Waters, Christa; Rivierre, Antoine; Marentette, Julie
Cc : Lavoie, Pierre; Lester, Brian
Objet : Mackerel Memo
Importance : Haute

Hi Folks,
Just wanted to let you know that it sounds like we will move forward with a 10,000 commercial TAC. If you have any concerns on this, please let me know ASAP. We are just waiting for final comments from the Regions, Science, and Legal before we finalize the memo tomorrow and move through approvals.
Thanks,

Jenness Cawthray
Senior Fisheries and Aquaculture Management Officer |
Agent principal, Gestion des pêches et de l'aquaculture
Fisheries and Oceans | Pêches et océans
200 rue Kent Street - 13S013 Ottawa, ON, K1A 0E6
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Facsimile | Télécopieur (613) 990-7051
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Patrick, Lindsey

From: French, Christopher
Sent: Wednesday, May 10, 2017 8:56 PM
To: Trudeau, Miriam; Richter, Julie
Cc: Hopkins, Lillian; Patrick, Lindsey; Malko, Carol; Butcher, Ashley
Subject: Re: Fish decisions

Hi,

I've added it to the agenda. I'll send in the AM. Sylvie has reviewed the email below and proposed items.

Chris

Sent from my BlackBerry 10 smartphone on the Rogers network.
Original Message
From: Trudeau, Miriam
Sent: Wednesday, May 10, 2017 8:53 PM
To: Richter, Julie; French, Christopher
Cc: Hopkins, Lillian; Patrick, Lindsey; Malko, Carol; Butcher, Ashley
Subject: Fw: Fish decisions

Julie/Chris,

Can Adam or Sylvie speak to the fish decisions coming up for Gulf Halibut, Turbot and Redfish at EFM tomorrow?

Thanks :)

Sent from my BlackBerry 10 smartphone on the Rogers network.
Original Message
From: Butcher, Ashley <Ashley.Butcher@dfo-mpo.gc.ca>
Sent: Wednesday, May 10, 2017 9:22 AM
To: Trudeau, Miriam; Patrick, Lindsey
Subject: RE: Fish decisions

Just makes our lives so much easier :)

-----Original Message-----
From: Trudeau, Miriam
Sent: Wednesday, May 10, 2017 9:11 AM
To: Butcher, Ashley <Ashley.Butcher@dfo-mpo.gc.ca>; Patrick, Lindsey <Lindsey.Patrick@dfo-mpo.gc.ca>
Subject: RE: Fish decisions

Make sense! Will ask Julie/Chris

-----Original Message-----
From: Butcher, Ashley
Sent: Wednesday, May 10, 2017 9:10 AM

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To: Trudeau, Miriam <Miriam.Trudeau@dfo-mpo.gc.ca>; Patrick, Lindsey <Lindsey.Patrick@dfo-mpo.gc.ca>
Subject: RE: Fish decisions

s.21(1)(b)

Why don't we just ask EFM to add to the weekly agenda?

-----Original Message-----
From: Trudeau, Miriam
Sent: Wednesday, May 10, 2017 8:41 AM
To: Patrick, Lindsey <Lindsey.Patrick@dfo-mpo.gc.ca>; Butcher, Ashley <Ashley.Butcher@dfo-mpo.gc.ca>
Subject: Re: Fish decisions

Should I plan for a MINO briefing this Friday all all of those fish decisions?

Sent from my BlackBerry 10 smartphone on the Rogers network.
Original Message
From: Patrick, Lindsey
Sent: Wednesday, May 10, 2017 8:26 AM
To: Trudeau, Miriam; Butcher, Ashley
Subject: Fw: Fish decisions

Wanted you both to see this

Can we look into a Northern Cod briefing tomorrow

Thanks

Lindsey Patrick
Executive Advisor to Associate Deputy Minister DFO, 613-990-0020
Original Message
From: Kevin Stringer
Sent: Wednesday, May 10, 2017 7:24 AM
To: Sylvie Lapointe; Trevor Swerdfager; Kevin Anderson
Cc: Lillian Hopkins; Lindsey Patrick; Anne Lamar
Subject: Fish decisions

3Ps Cod.
Signed the 3Ps cod note.

Mackerel
MINO does want a briefing of the Minister on mackerel, but not until next week. Fishery opens May 15. Can we open with an interim TAC?

Gulf Halibut
Signed the note. MINO knows it is coming in today and knows what the recommended option is.

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Turbot (Gulf) - Redfish (Unit 1)
I signed that note as well. s.21(1)(b)

NL Short term Policy Issues
Kevin aiming for a Friday release. I mentioned this to Sheldon and Vince last night. Kevin going to contact Sheldon on it today.

Comms and QP Notes on all of the above will be crucial.

Thanks

KS

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s.16(2)

Butcher, Ashley

From: Hopkins, Lillian
Sent: Friday, May 5, 2017 3:47 PM
To: Malko, Carol; Butcher, Ashley
Subject: Re: Min Brief Calendar

Yes. Good idea.

From: Malko, Carol
Sent: Friday, May 5, 2017 3:38 PM
To: Hopkins, Lillian; Butcher, Ashley
Subject: RE: Min Brief Calendar

The only thing listed for next week is Atlantic Mackerel, though. Do we want to include Sisson Mine?

From: Hopkins, Lillian
Sent: May-05-17 3:37 PM
To: Malko, Carol; Butcher, Ashley
Subject: Re: Min Brief Calendar

Shoot, I forgot with everything else going on. I think OK.

L.

From: Malko, Carol
Sent: Friday, May 5, 2017 3:34 PM
To: Hopkins, Lillian; Butcher, Ashley
Subject: Min Brief Calendar

Anything I should for the next few weeks?

Carol Malko
Senior Analyst // Analyste principale
Office of the Deputy Minister // Bureau de la Sous-ministre
Fisheries and Oceans Canada // Pêches et oceans Canada
T: 613-949-3400
BB: [redacted]
Carol.malko@dfo-mpo.gc.ca

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s.21(1)(b)

Patterson, Pauline

De: Rivierre, Antoine
Envoyé: May-10-17 1:52 PM
À: Hardy, Magalie; Richard, Josée; Sylvestre, Jean-François; Bourgeois, Raoul
Cc: Simard, France; Lemelin, Dario; Boudreau, Suzie
Objet: POUR APPROBATION : Maquereau 16 - Mesures de gestion
Pièces jointes: Maquereau 16 - Avis aux pêcheurs - 2017-05-10.docx; 2017-045-00376 2017 Atlantic Mackerel Management Measures approuvé DGRQc....pdf

Bonjour à tous,
Voici un résumé des dernières discussions concernant la prochaine saison de pêche au maquereau.
Après une semaine de négociation, le mémo pour décision a été envoyé ce matin au cabinet du ministre.

- [redacted]
- Des mesures de gestion supplémentaires dans la région du golfe (Hail-In et 25 % de PVQ) permettront de mieux suivre les débarquements et de diminuer la quantité des captures non déclarées estimée à 6000 t en 2016
- Avec les nouvelles mesures proposées, les débarquements totaux de maquereaux en 2017 (déclarés et non déclarés) devraient être compris entre 16 000 et 18 000 tonnes. Cette quantité est légèrement inférieure à ce que l'industrie du Québec réclamait lors du dernier comité consultatif (20 000 tonnes).
- Le TAC est fixé pour un an
- Un groupe de travail industrie-sciences-gestion de la ressource sera prochainement mis sur pieds pour proposer un plan de rétablissement pour cette espèce

Sur la base de cette information, **les mesures de gestion qui étaient en place l'année passée pour la flottille du Québec seront reconduites cette année.** L'appel d'entrée sera maintenu ainsi que l'obligation de remplir un livre de bord. Aussi, d'ici demain, une ordonnance va être envoyée par la région du Golfe pour ouvrir la pêche lundi prochain, le 15 mai. Je vous envoie donc un avis aux pêcheurs que je vous demanderai d'approuver le plus rapidement possible.

Également, pour votre information, la région du Québec a signalé que la mise en œuvre de nouvelles mesures de gestion dans la région du Golfe était un pas dans la bonne direction, mais qu'il était peu probable selon nous que ces mesures permettent dès la première année de réduire la quantité de prises non déclarées de 6 000 t à 4 000 t.

[redacted]

Je reste bien évidemment disponible si vous avez des questions à ce sujet.

Antoine

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Avis aux pêcheurs

MAQUEREAU BLEU – ZONE 16 – FLOTTILLE DU QUEBEC
OUVERTURE DE LA SAISON DE PÊCHE AU MAQUEREAU ET MESURES DE GESTION POUR 2017

Québec – Le 10 mai 2017

Pêches et Océans Canada – Région du Québec informe les titulaires de permis de pêche au maquereau du Québec que la saison de pêche du maquereau dans la zone de pêche 16 débutera le 15 mai, 2017 et que les mesures de gestion de 2016 demeureront en vigueur en 2017 :

L'appel d'entrée à quai

Avant le début de la saison de pêche, le titulaire du permis devra avoir conclu avec une compagnie de vérification à quai légalement désignée par Pêches et Océans Canada une entente relative à l'appel d'entrée.

Taille minimale des captures

La taille minimale des captures commerciales demeure fixée à 263 mm.

Formulaire combiné

Les pêcheurs doivent se procurer leur livret de formulaires combinés auprès des fournisseurs préqualifiés par le MPO, dont la liste est disponible à l'adresse suivante : http://www.dfo-mpo.gc.ca/fm-gp/sdc-cps/nir-nei/log-suppliers-fra.htm

La section journal de bord doit être dûment remplie avant l'arrivée à quai et le formulaire complété doit être envoyé au MPO après chaque voyage de pêche.

Pour information additionnelle

Veuillez consulter notre site internet à l'adresse suivante : http://www.dfo-mpo.gc.ca/fm-gp/sdc-cps/index-fra.htm

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s.21(1)(b)

Cormier, Mélanie

De: Lemire, Maryse
Envoyé: 10 mai 2017 07:49
À: Rivierre, Antoine
Cc: Boudreau, Suzie
Objet: TR: 2017 ATLANTIC MACKEREL MANAGEMENT MEASURES
Pièces jointes: MECTS-#3766140-v7-2017_ATLANTIC_MACKEREL_MANAGEMENT_MEASURES.DOCX; 2017-045-00376 2017 Atlantic Mackerel Management Measures approuvé DGRQc.pdf

Importance: Haute

Pour votre information et dossier.

De : Vincent, Patrick
Envoyé : 9 mai 2017 17:16
À : Lapointe, Sylvie <Sylvie.Lapointe@dfo-mpo.gc.ca>
Cc : Burns, Adam <Adam.Burns@dfo-mpo.gc.ca>; Lester, Brian <Brian.Lester@dfo-mpo.gc.ca>; Cawthray, Jenness <cawthrayj.Cawthray@dfo-mpo.gc.ca>; Lemire, Maryse <Maryse.Lemire@dfo-mpo.gc.ca>
Objet : 2017 ATLANTIC MACKEREL MANAGEMENT MEASURES
Importance : Haute

Bonjour Sylvie,

Tu trouveras ci-dessous les commentaires de la région du Québec concernant le mémo et faisant suite à notre appel de vendredi dernier.

1. TAC

2. Mesures de Gestion

La mise en œuvre de l'appel d'entrée (hail-in) et de 25% de vérification à quai dans la région du Golfe est un pas dans la bonne direction. Il est cependant peu probable que ces mesures permettent dès la première année de réduire la quantité de prises non déclarées de 6 000 t à 4 000 t, tel que précisé dans le mémo. Le Hail-In et la vérification à quai permettront de faire légèrement baisser la quantité de captures non déclarées, mais probablement pas de cet ordre de grandeur, car elles n'auront pas d'effet sur la pêche à l'appât.
En 2016, les Sciences ont évalué que les captures non déclarées représentaient environ 6000 t, et ont précisé que cette quantité était probablement sous-estimée.

Il serait intéressant d'indiquer dès cette année la mise en place de nouvelles mesures de gestion pour les années suivantes. Nous souhaiterions par exemple que la mise en place des livres de bord obligatoires soit une avenue envisagée, comme c'est déjà le cas dans cette région. Nous comprenons la charge de travail associée à la saisie des données, aussi l'avenue du journal de bord électronique serait certainement une solution à la charge de travail.

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Merci,

Patrick Vincent

Directeur général régional, Région du Québec
Pêches et Océans Canada / Gouvernement du Canada
104, rue Dalhousie, Québec, Qc, G1K 7Y7
Patrick.Vincent@dfo-mpo.gc.ca / Tél.: 418-648-4158

Regional Director General, Quebec Region
Fisheries and Oceans Canada / Government of Canada
104 Dalhousie Street, Québec, Qc, G1K 7Y7
Patrick.Vincent@dfo-mpo.gc.ca / Tel.: 418-648-4158

De : Cawthray, Jenness
Envoyé : May-09-17 11:05 AM
À : Rivierre, Antoine; Dunne, Erin; Mallet, Pierre; Gaudet, Mario; Thomas, Tashina; Waters, Christa; Marentette, Julie
Cc : Lester, Brian
Objet : RE: Mackerel Memo
Importance : Haute

Hi All,
We were waiting for comments from RDGs on the memo by this morning. Can you follow up in your Regions to see if there are comments? We would like to move the memo this afternoon.
Thank you!
Jenness

From: Rivierre, Antoine
Sent: May-08-17 3:26 PM
To: Cawthray, Jenness; Dunne, Erin; Mallet, Pierre; Gaudet, Mario; Thomas, Tashina; Waters, Christa; Marentette, Julie
Cc: Lavoie, Pierre; Lester, Brian
Subject: RE: Mackerel Memo

Good for me !

Antoine

De : Cawthray, Jenness
Envoyé : May-08-17 2:20 PM
À : Dunne, Erin; Mallet, Pierre; Gaudet, Mario; Thomas, Tashina; Waters, Christa; Rivierre, Antoine; Marentette, Julie
Cc : Lavoie, Pierre; Lester, Brian
Objet : Mackerel Memo
Importance : Haute

Hi Folks,
Just wanted to let you know that it sounds like we will move forward with a 10,000 commercial TAC. If you have any concerns on this, please let me know ASAP. We are just waiting for final comments from the Regions, Science, and Legal before we finalize the memo tomorrow and move through approvals.
Thanks,

Jenness Cawthray
Senior Fisheries and Aquaculture Management Officer |
Agent principal, Gestion des pêches et de l'aquaculture
Fisheries and Oceans | Pêches et océans
200 rue Kent Street - 13S013 Ottawa, ON, K1A 0E6

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Jenness.Cawthray@dfo-mpo.gc.ca
Telephone | Téléphone (613) 998-1524
Facsimile | Télécopieur (613) 990-7051
Government of Canada | Gouvernement du Canada

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Cormier, Mélanie

De: Lemire, Maryse
Envoyé: 10 mai 2017 20:32
À: Rivierre, Antoine; Boudreau, Suzie
Objet: RE: Mackerel Memo

Antoine,
J'ai fait remarquer à Patrick ce matin qu'il n'avait pas à signer le mémo, mais seulement à transmettre les commentaires de la région. J'avais joint seulement pour son information. Elle a été paraphée par erreur.

Patrick m'a dit qu'il avait parlé à Sylvie Lapointe et Kevin Stringer en fin de journée mardi, que ces derniers partageaient notre point de vue et celui des Maritimes, et que le TAC serait de 10 000t.

Maryse

Maryse Lemire

Directrice régionale de la gestion des pêches
Pêches et Océans Canada / Gouvernement du Canada
Maryse.Lemire@dfo-mpo.gc.ca / Tél.: 418-648-5783

Fisheries Management Regional Director
Fisheries and Oceans Canada / Government of Canada
Maryse.Lemire@dfo-mpo.gc.ca / Tel.: 418-648-5783

Ma langue, une question de respect
My language, a matter of respect

De : Rivierre, Antoine
Envoyé : 10 mai 2017 15:39
À : Boudreau, Suzie <Suzie.Boudreau@dfo-mpo.gc.ca>; Lemire, Maryse <Maryse.Lemire@dfo-mpo.gc.ca>
Objet : TR: Mackerel Memo

Je ne comprends pas !
La version signée du mémo de ce matin n'était pas la dernière ?

Antoine

De : Lester, Brian
Envoyé : May-10-17 3:35 PM
À : Mallet, Pierre; Waters, Christa; Rivierre, Antoine; Dunne, Erin; Gaudet, Mario; Thomas, Tashina; Marentette, Julie
Cc : Lavoie, Pierre
Objet : RE: Mackerel Memo

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s.19(1) s.21(1)(b)

[redacted] Will let you know if anything is confirmed.

From: Cawthray, Jenness
Sent: 2017–May-10 2:20 PM
To: Mallet, Pierre; Waters, Christa; Rivierre, Antoine; Dunne, Erin; Gaudet, Mario; Thomas, Tashina; Marentette, Julie
Cc: Lavoie, Pierre; Lester, Brian
Subject: RE: Mackerel Memo

Hmmm. I have heard nothing about this! [redacted]
☺

From: Mallet, Pierre
Sent: May-10-17 2:12 PM
To: Waters, Christa; Rivierre, Antoine; Cawthray, Jenness; Dunne, Erin; Gaudet, Mario; Thomas, Tashina; Marentette, Julie
Cc: Lavoie, Pierre; Lester, Brian
Subject: Re: Mackerel Memo

Just heard that too

Sent from my BlackBerry 10 smartphone on the Rogers network.

From: Waters, Christa
Sent: Wednesday, May 10, 2017 3:09 PM
To: Rivierre, Antoine; Cawthray, Jenness; Dunne, Erin; Mallet, Pierre; Gaudet, Mario; Thomas, Tashina; Marentette, Julie
Cc: Lavoie, Pierre; Lester, Brian
Subject: RE: Mackerel Memo

Hello,
[redacted]
Christa

Christa Waters
Regional Senior Fisheries Management Advisor
Resource Management | Gestion des Pêches
Maritimes Region | Région des Maritimes
Telephone | Téléphone 902-293-6541

From: Rivierre, Antoine
Sent: May-08-17 4:26 PM
To: Cawthray, Jenness; Dunne, Erin; Mallet, Pierre; Gaudet, Mario; Thomas, Tashina; Waters, Christa; Marentette, Julie
Cc: Lavoie, Pierre; Lester, Brian
Subject: RE: Mackerel Memo

Good for me !

Antoine

De : Cawthray, Jenness
Envoyé : May-08-17 2:20 PM
À : Dunne, Erin; Mallet, Pierre; Gaudet, Mario; Thomas, Tashina; Waters, Christa; Rivierre, Antoine; Marentette, Julie

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Cc : Lavoie, Pierre; Lester, Brian
Objet : Mackerel Memo
Importance : Haute

Hi Folks,
Just wanted to let you know that it sounds like we will move forward with a 10,000 commercial TAC. If you have any concerns on this, please let me know ASAP. We are just waiting for final comments from the Regions, Science, and Legal before we finalize the memo tomorrow and move through approvals.
Thanks,

Jenness Cawthray
Senior Fisheries and Aquaculture Management Officer |
Agent principal, Gestion des pêches et de l'aquaculture
Fisheries and Oceans | Pêches et océans
200 rue Kent Street - 13S013 Ottawa, ON, K1A 0E6
Jenness.Cawthray@dfo-mpo.gc.ca
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Facsimile | Télécopieur (613) 990-7051
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s.19(1)

s.21(1)(b)

Cormier, Mélanie

De: Boudreau, Suzie
Envoyé: 10 mai 2017 17:01
À: Rivierre, Antoine
Objet: RE: Mackerel Memo

Je n'avais pas ouvert le courriel, mais cela n'est pas encore la version signée par Ottawa. C'est encore indiqué «DRAFT».

Danie pourra nous envoyer le tout lorsque ce sera complété et approuvé.

Suzie

De : Rivierre, Antoine
Envoyé : 10 mai 2017 15:39
À : Boudreau, Suzie; Lemire, Maryse
Objet : TR: Mackerel Memo

Je ne comprends pas !
La version signée du mémo de ce matin n'était pas la dernière ?

Antoine

De : Lester, Brian
Envoyé : May-10-17 3:35 PM
À : Mallet, Pierre; Waters, Christa; Rivierre, Antoine; Dunne, Erin; Gaudet, Mario; Thomas, Tashina; Marentette, Julie
Cc : Lavoie, Pierre
Objet : RE: Mackerel Memo

[redacted] Will let you know if anything is confirmed.

From: Cawthray, Jenness
Sent: 2017–May-10 2:20 PM
To: Mallet, Pierre; Waters, Christa; Rivierre, Antoine; Dunne, Erin; Gaudet, Mario; Thomas, Tashina; Marentette, Julie
Cc: Lavoie, Pierre; Lester, Brian
Subject: RE: Mackerel Memo

Hmmm. I have heard nothing about this! [redacted]
☺

From: Mallet, Pierre
Sent: May-10-17 2:12 PM
To: Waters, Christa; Rivierre, Antoine; Cawthray, Jenness; Dunne, Erin; Gaudet, Mario; Thomas, Tashina; Marentette, Julie
Cc: Lavoie, Pierre; Lester, Brian
Subject: Re: Mackerel Memo

Just heard that too

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Sent from my BlackBerry 10 smartphone on the Rogers network. s.21(1)(b)

From: Waters, Christa
Sent: Wednesday, May 10, 2017 3:09 PM
To: Rivierre, Antoine; Cawthray, Jenness; Dunne, Erin; Mallet, Pierre; Gaudet, Mario; Thomas, Tashina; Marentette, Julie
Cc: Lavoie, Pierre; Lester, Brian
Subject: RE: Mackerel Memo

Hello,

[redacted]

Christa

Christa Waters
Regional Senior Fisheries Management Advisor
Resource Management | Gestion des Pêches
Maritimes Region | Région des Maritimes
Telephone | Téléphone 902-293-6541

From: Rivierre, Antoine
Sent: May-08-17 4:26 PM
To: Cawthray, Jenness; Dunne, Erin; Mallet, Pierre; Gaudet, Mario; Thomas, Tashina; Waters, Christa; Marentette, Julie
Cc: Lavoie, Pierre; Lester, Brian
Subject: RE: Mackerel Memo

Good for me !

Antoine

De : Cawthray, Jenness
Envoyé : May-08-17 2:20 PM
À : Dunne, Erin; Mallet, Pierre; Gaudet, Mario; Thomas, Tashina; Waters, Christa; Rivierre, Antoine; Marentette, Julie
Cc : Lavoie, Pierre; Lester, Brian
Objet : Mackerel Memo
Importance : Haute

Hi Folks,
Just wanted to let you know that it sounds like we will move forward with a 10,000 commercial TAC. If you have any concerns on this, please let me know ASAP. We are just waiting for final comments from the Regions, Science, and Legal before we finalize the memo tomorrow and move through approvals.
Thanks,

Jenness Cawthray
Senior Fisheries and Aquaculture Management Officer |
Agent principal, Gestion des pêches et de l'aquaculture
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Cormier, Mélanie

De: Richard, Josée
Envoyé: 10 mai 2017 15:02
À: Rivierre, Antoine; Hardy, Magalie; Sylvestre, Jean-François; Bourgeois, Raoul; Richard, Simon
Cc: Simard, France; Lemelin, Dario; Boudreau, Suzie
Objet: RE: POUR APPROBATION : Maquereau 16 - Mesures de gestion

OK pour moi. L'avis devra aussi être disponible en anglais.

Merci,

De : Rivierre, Antoine
Envoyé : 10 mai 2017 14:52
À : Hardy, Magalie; Richard, Josée; Sylvestre, Jean-François; Bourgeois, Raoul
Cc : Simard, France; Lemelin, Dario; Boudreau, Suzie
Objet : POUR APPROBATION : Maquereau 16 - Mesures de gestion

Bonjour à tous,
Voici un résumé des dernières discussions concernant la prochaine saison de pêche au maquereau.
Après une semaine de négociation, le mémo pour décision a été envoyé ce matin au cabinet du ministre.

- [redacted]
- Des mesures de gestion supplémentaires dans la région du golfe (Hail-In et 25 % de PVQ) permettront de mieux suivre les débarquements et de diminuer la quantité des captures non déclarées estimée à 6000 t en 2016
- Avec les nouvelles mesures proposées, les débarquements totaux de maquereaux en 2017 (déclarés et non déclarés) devraient être compris entre 16 000 et 18 000 tonnes. Cette quantité est légèrement inférieure à ce que l'industrie du Québec réclamait lors du dernier comité consultatif (20 000 tonnes).
- Le TAC est fixé pour un an
- Un groupe de travail industrie-sciences-gestion de la ressource sera prochainement mis sur pieds pour proposer un plan de rétablissement pour cette espèce

Sur la base de cette information, **les mesures de gestion qui étaient en place l'année passée pour la flottille du Québec seront reconduites cette année.** L'appel d'entrée sera maintenu ainsi que l'obligation de remplir un livre de bord. Aussi, d'ici demain, une ordonnance va être envoyée par la région du Golfe pour ouvrir la pêche lundi prochain, le 15 mai. Je vous envoie donc un avis aux pêcheurs que je vous demanderai d'approuver le plus rapidement possible.

Également, pour votre information, la région du Québec a signalé que la mise en œuvre de nouvelles mesures de gestion dans la région du Golfe était un pas dans la bonne direction, mais qu'il était peu probable selon nous que ces mesures permettent dès la première année de réduire la quantité de prises non déclarées de 6 000 t à 4 000 t.

[redacted]

Je reste bien évidemment disponible si vous avez des questions à ce sujet.

Antoine

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s.21(1)(b)

s.16(2)

LeCouffe, Marc

From: LeCouffe, Marc
Sent: Wednesday, May 10, 2017 3:03 PM
To: Quinn, Frank
Subject: Fw: Mackerel TAC

Hi Frank,

I believe this would have more impact if RDG sends directly to ADM.

Marc

From: Cawthray, Jenness
Sent: Wednesday, May 10, 2017 03:00 PM
To: LeCouffe, Marc
Subject: FW: Mackerel TAC

Hi Marc,
I am sending this to you as requested by Brian.
Thanks,
Jenness

From: Doucet, Serge
Sent: May-09-17 3:19 PM
To: Cawthray, Jenness
Cc: Valkenier, Mary-Ellen; Vincent, Guylaine; Vincent, Patrick; Burns, Adam; Anderson, Kevin; Quinn, Frank
Subject: Mackerel TAC

Jenness;

[redacted]

If you have any questions, please don't hesitate to reach out.

Have a great day.

Serge Doucet
Regional Director General /Directeur général régional
Gulf Region / Région du Golfe
(506) 851-7750 /Cell [redacted] / facsimile / télécopieur (506) 851-7732
Serge.Doucet@dfo-mpo.gc.ca
Fisheries and Oceans Canada, Gulf Region / P.O. Box 5030, 343 Université Avenue, Moncton, NB E1C 9B6
Pêches et Océans Canada, Région du Golfe, C.P. 5030, 343, avenue de l'Université, Moncton (N.-B.) E1C 9B6
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s.21(1)(b)

s.16(2)

Berthier, Jacinta

From: Berthier, Jacinta
Sent: Wednesday, May 10, 2017 5:27 PM
To: Waters, Christa; Docherty, Verna
Subject: FW: Memorandum of Atlantic Mackerel

As discussed briefly with Christa. If there is additional information you would like to provide, we expect the updated memo to be with the RDG today or tomorrow, [redacted]
Doug's comments are consistent with our message all along.

Thanks,
Jacinta

Jacinta Berthier

Director, Resource and Aboriginal Fisheries Management
Fisheries and Oceans Canada | Government of Canada
Jacinta.Berthier@dfo-mpo.gc.ca |Tel: 902 426-7681 | Cel: [redacted]

Directrice Gestion des ressources et pêches autochtones
Pêches et Océans Canada | Gouvernement du Canada
Jacinta.Berthier@dfo-mpo.gc.ca | Tél. : 902 426-7681 | Tél. cell. : [redacted]

If you have received this communication by mistake, please notify the sender immediately and delete the communication without printing, copying or forwarding it. Thank you.

Si vous avez reçu cette communication par erreur, veuillez en aviser l'expéditeur immédiatement et la supprimer sans l'imprimer, la copier, ou la faire suivre. Merci.

From: Wentzell, Doug
Sent: Wednesday, May 10, 2017 11:49 AM
To: Prall-Dillman, Sheila <Sheila.Prall-Dillman@dfo-mpo.gc.ca>
Cc: Berthier, Jacinta <Jacinta.Berthier@dfo-mpo.gc.ca>; Skinner, Sandy <Sandy.Skinner@dfo-mpo.gc.ca>
Subject: RE: Memorandum of Atlantic Mackerel

Hi Sheila,

Yes – I have seen an earlier version of the attached memo. Bottom line is that there are some differences in opinion between regions, which is not always uncommon, and our NHQ colleagues will likely need to take all of those into consideration and make a final call on where we land in terms of advice.

[redacted] this stock is in the rebuilding phase and there are concerns around unreported catch in the amount of approx. 6,000t.

Given that the unreported catch cannot be verified, our thinking has been that it may be better to use 2017 as a year to implement better reporting measures, to recognize the undeclared catch (which likely exists at some significant level)

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s.21(1)(b)

and to put measures in place to be able to address that in future years through better reporting. [redacted]

[redacted]

Jacinta: Please provide any other considerations I may not have referenced above.

Many Thanks,
Doug

Doug Wentzell
Regional Director, Fisheries Management
Fisheries and Oceans Canada | Government of Canada
Doug.Wentzell@dfo-mpo.gc.ca | Telephone: 902-426-9962 | Facsimile: 902-426-7967

Directeur régional. Gestion des pêches
Pêches et Océans Canada | Gouvernement du Canada
Doug.Wentzell@dfo-mpo.gc.ca | Téléphone: 902-426-9962 | Télécopieur: 902-426-7967

From: Prall-Dillman, Sheila
Sent: Wednesday, May 10, 2017 11:28 AM
To: Wentzell, Doug <Doug.Wentzell@dfo-mpo.gc.ca>
Cc: Berthier, Jacinta <Jacinta.Berthier@dfo-mpo.gc.ca>; Skinner, Sandy <Sandy.Skinner@dfo-mpo.gc.ca>
Subject: Memorandum of Atlantic Mackerel

Hi Doug,

The attached briefing note on Atlantic Mackerel was circulated as a draft for discussion (see attached appointment). Mary-Ellen asked if you had reviewed it. Please let me know what you anticipate as next steps in terms of revisions or approvals of this version given the recent email discussion. Thank you.

Sheila

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Lester, Brian

From: Cawthray, Jenness
Sent: 2017–May-10 3:13 PM
To: Lester, Brian
Cc: Gibson, Andrea; Amelin, Vasili
Subject: FW: For input - 2017-001-00807 - Atlantic mackerel
Attachments: MECTS-#3771565-v1-Main_Docs_2017-001-00807.pdf; EAC and WWF.docx

Importance: High

Hi Brian,
Correspondence for your approval.
Thanks,
Jenness

From: Amelin, Vasili
Sent: May-09-17 8:23 AM
To: Cawthray, Jenness
Cc: Gibson, Andrea
Subject: FW: For input - 2017-001-00807 - Atlantic mackerel

Jenness,

Can you please give me a status on this one.
Thanks,

Vas

From: Lester, Brian
Sent: May-04-17 11:31 AM
To: Cawthray, Jenness
Cc: Amelin, Vasili
Subject: FW: For input - 2017-001-00807 - Atlantic mackerel

Jenness: Can you please prepare a reply.

Thanks

From: Amelin, Vasili
Sent: 2017–May-04 10:29 AM
To: Lester, Brian
Cc: Gibson, Andrea; Northcott, Paul
Subject: FW: For input - 2017-001-00807 - Atlantic mackerel

Brian,

Please provide input to Paul as requested.
Thanks,

Vas

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From: Northcott, Paul
Sent: May-04-17 10:27 AM
To: Gibson, Andrea; Amelin, Vasili
Subject: For input - 2017-001-00807 - Atlantic mackerel

Good morning,

I have received another letter regarding the Atlantic mackerel fishery.

The incoming is from the Ecology Action Centre which outlines their interest in the Atlantic mackerel stock and its protection.

Could Mr. Lester provide input, and could I receive this by May 10th.

Thanks

Paul Northcott

Writer-Editor, Ministerial Correspondence Control Unit
Fisheries and Oceans Canada / Government of Canada
Paul.Northcott@dfo-mpo.gc.ca / Tel: 613-990-9954

Rédacteur/Réviseur, Unité du contrôle de la correspondance ministérielle
Pêches et Océans Canada / Gouvernement du Canada
Paul.Northcott@dfo-mpo.gc.ca / Tél. : 613-990-9954

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s.19(1) 2017-001-00807

Minister / Ministre (DFO/MPO)

From:	LeBlanc, Dominic - député <dominic.leblanc@parl.gc.ca>
Sent:	April-18-17 12:55 PM
To:	Minister / Ministre (DFO/MPO)
Subject:	TR: Precautionary catch limits for mackerel
Attachments:	Mackerel letter to Minister from EAC and WWF-Canada.pdf; Recommendations to Atlantic Mackerel Advisory Committee Meeting.pdf

De : [redacted]
Envoyé : 18 avril 2017 11:51
À : LeBlanc, Dominic - député
Cc : Lester, Brian :DFO; Waters, Christa L :DFO; 'Antoine.Rivierre@dfo-mpo.gc.ca'; Dunne, Erin M :DFO; Aurelie [redacted]
Objet : Precautionary catch limits for mackerel

Dear Hon. Minister Leblanc,

Thank you for making ocean conservation a priority and committing to bringing real change to the ecological protection of our oceans.

In this regard, we applaud your decision to close the Atlantic mackerel fishery earlier during the 2016-17 season, ensuring that your Department's goals were met. We recognize that the fishery is important as a directed fishery, as bait for many of the owner-operator fishermen and as a recreational food source. Rebuilding this fishery will hopefully enable these groups to further benefit from the resource while also benefitting other species who depend on mackerel.

Both the Ecology Action Centre (EAC) and WWF-Canada are working hard to protect our oceans and to ensure that our marine ecosystems remain healthy for future generations. Last year, we drew attention to the shortcomings of management and science with regards to our Canadian small pelagic fish stocks, including Atlantic mackerel.

As you are aware, many of these shortcomings were further highlighted in the 2016 Fall Auditor General Report on Sustaining Canada's Major Fish Stocks. The Atlantic mackerel:

- lacks a Rebuilding Plan with no clear commitment from the Department on timeline for the development of this Plan;
- has a 10-year outdated Integrated Fisheries Management Plan (IFMP) (dated 2007);
- has no Upper Limit Reference Point, and;
- has serious monitoring issues, particularly for the bait fisheries, resulting in unaccounted catch estimated at 6,000t in 2016-17, which is nearly as high as the Total Allowable Catch for that fishing season (8000t).

Unfortunately, at the Atlantic Mackerel Advisory Committee (AMAC) meeting held in Halifax on March 30, 2017, all 2017-18 TAC recommendations from industry (between 20,000-36,000 tonnes) did not properly consider scientific evidence, the need for and likelihood of rebuilding at these catch levels, or the precautionary principle. Moreover, it remained unclear how the Department could manage any quota given the extent of undeclared catches.

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We are respectfully requesting that you reaffirm your Department's commitment to rebuilding depleted stocks, using scientific evidence and following the precautionary approach when making your management decisions for the Atlantic mackerel stock for 2017-18.

We are pleased to hear that the Department is forming a Rebuilding Plan Working Group for mackerel, and planning to update the IFMP. However, we urge your Department to further address the following pressing matters in 2017-18:

- **Ensure removals from all fishing sources are kept to the lowest possible level in setting quota to promote stock growth out of the Critical Zone per the Precautionary Approach Framework. We see a rollover of 8,000 tonnes as the fitting within this objective;**
- **Set a clear timeline for the development and completion of the Rebuilding Plan; and**
- **Implement a uniform and consistent catch monitoring system across regions to address unaccounted catch. This should not permit a higher quota until a demonstrated system is in place.**

We have attached the detailed recommendations that we provided to AMAC. We look forward to working with the mackerel managers and fishermen in these important efforts. On this matter, EAC is currently the sole official NGO member of AMAC and the Rebuilding Plan Working Group. We kindly request your support for the inclusion of WWF-Canada as a formal member of these groups to reinforce collaboration and strive to achieve a balanced representation for the benefit of all Canadians.

Sincerely,

Ecology Action Centre

WWF-Canada

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WWF

Ecology Action Centre

Tuesday, April-18-17

Hon. Minister Leblanc
Minister of Fisheries, Oceans and the Canadian Coast Guard
200 Kent Street
Ottawa, Ontario
K1A 0A6

Dear Hon. Minister Leblanc,

Thank you for making ocean conservation a priority and committing to bringing real change to the ecological protection of our oceans.

In this regard, we applaud your decision to close the Atlantic mackerel fishery earlier during the 2016-17 season, ensuring that your Department's goals were met. We recognize that the fishery is important as a directed fishery, as bait for many of the owner-operator fishermen and as a recreational food source. Rebuilding this fishery will hopefully enable these groups to further benefit from the resource while also benefitting other species who depend on mackerel.

Both the Ecology Action Centre (EAC) and WWF-Canada are working hard to protect our oceans and to ensure that our marine ecosystems remain healthy for future generations. Last year, we drew attention to the shortcomings of management and science with regards to our Canadian small pelagic fish stocks, including Atlantic mackerel.

As you are aware, many of these shortcomings were further highlighted in the 2016 Fall Auditor General Report on Sustaining Canada's Major Fish Stocks. The Atlantic mackerel:

- lacks a Rebuilding Plan with no clear commitment from the Department on timeline for the development of this Plan;
- has a 10-year outdated Integrated Fisheries Management Plan (IFMP) (dated 2007);
- has no Upper Limit Reference Point, and;
- has serious monitoring issues, particularly for the bait fisheries, resulting in unaccounted catch estimated at 6,000t in 2016-17, which is nearly as high as the Total Allowable Catch for that fishing season (8000t).

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20,000-36,000 tonnes) did not properly consider scientific evidence, the need for and likelihood of rebuilding at these catch levels, or the precautionary principle. Moreover, it remained unclear how the Department could manage any quota given the extent of undeclared catches.

We are respectfully requesting that you reaffirm your Department's commitment to rebuilding depleted stocks, using scientific evidence and following the precautionary approach when making your management decisions for the Atlantic mackerel stock for 2017-18.

We are pleased to hear that the Department is forming a Rebuilding Plan Working Group for mackerel, and planning to update the IFMP. However, we urge your Department to further address the following pressing matters in 2017-18:

- **Ensure removals from all fishing sources are kept to the lowest possible level in setting quota to promote stock growth out of the Critical Zone per the Precautionary Approach Framework. We see a rollover of 8,000 tonnes as the fitting within this objective;**
- **Set a clear timeline for the development and completion of the Rebuilding Plan; and**
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We have attached the detailed recommendations that we provided to AMAC. We look forward to working with the mackerel managers and fishermen in these important efforts. On this matter, EAC is currently the sole official NGO member of AMAC and the Rebuilding Plan Working Group. We kindly request your support for the inclusion of WWF-Canada as a formal member of these groups to reinforce collaboration and strive to achieve a balanced representation for the benefit of all Canadians.

Sincerely,

[redacted]

Ecology Action Centre

WWF-Canada

CC:

Erin Dunne (NF manager mackerel)
Brian Lester (Chair Atlantic Management Advisory Committee for mackerel)
Antoine Rivierre (QC manager mackerel)
Christa Waters (Maritime manager mackerel)

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Recommendations to the Atlantic Mackerel Advisory Committee meeting

March 30, 2017

On behalf of the Ecology Action Centre and WWF-Canada I would like to read the following statement and recommendations to the Atlantic Mackerel Advisory Committee:

We are pleased with the progress made this year in improving the stock assessment and incorporating a model to better account for unreported catches. We also recognize that the fishery is managed across the Atlantic region without allocations by province or region and that the fishery is important both as a directed fishery and essential as bait for many of the owner-operator fishermen.

However, we want to reemphasize the fact that the Atlantic mackerel stock is in the Critical Zone without a recovery plan in place specifying clear objectives with, at a minimum, a target biomass goal beyond the limit reference point, a desired time to reach this target and an acceptable probability risk to reach this target within the agreed timeframe. **Without this information, any management decision for this fishing season remains ambiguous.**

Moreover, the issue of unreported and unmanaged catches has been raised repetitively over the years and we are concerned with the striking differences in these catch levels across provinces and differences in monitoring requirements and reporting methods across DFO-regions.

While the egg survey abundance index indicates a slight increase from the lowest levels of 2012, we want to remind the committee that the science information also notes that the value remains far below abundance levels from the 1980s and that the stock remains well under the limit reference point.

At this point, according to DFO's Precautionary Approach Framework any management decision should promote stock growth out of the Critical Zone by ensuring removals from all fishing sources are kept to the lowest possible level until the stock has cleared

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this zone. There should be no tolerance for preventable decline and this goal should remain the same whether the stock is declining, stable or showing signs of increase.

We urge DFO to:

- Evaluate catch monitoring across DFO-regions and implement a uniform and consistent monitoring system for recreational and bait fisheries across provinces and regions, and where necessary, implement catch control measures in these fisheries.
    - These could be through e-logs, weekly paper log submission, daily hails, dockside monitoring or other methods that are practical for the fishermen and also fulfill data collection requirements for science and management.
- Ensure that the 2017 TAC, including "total declared and undeclared catches", not exceed 8,000 tonnes as the stock remains in the Critical Zone and is in need of immediate rebuilding. This TAC would allow at a high probability (89%) that the spawning stock biomass remain above current levels by 2019 and would be consistent with the Precautionary Approach in:
    - Promoting stock growth;
    - Including removals from all fishing sources, and;
    - Preventing, at a very low risk level, any further decline of the stock.
- In consultation with stakeholders, develop and agree upon a recovery strategy with clear short and long-term objectives specifying a biomass target, desired time to reach this target and an acceptable level of risk to guide consistently subsequent TAC decisions. Recovery objectives should also look beyond biomass targets and consider broader stock and ecological goals to progress towards an ecosystem-based approach to fisheries management.

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[redacted]
Ecology Action Centre
[redacted]

Dear [redacted]

Thank you for your correspondence of April 18, 2017 regarding your views on the Atlantic mackerel fishery and for providing your detailed recommendations on this stock.

As you are aware, the Department has undertaken a new stock assessment for Atlantic mackerel and this updated assessment was discussed in great detail with all members of the Atlantic Mackerel Advisory Committee (AMAC) in late March. Of note, the most recent stock assessment has confirmed some growth in the biomass in recent years; however, the stock is still considered to be in the critical zone of the precautionary approach framework.

I would like to assure you that consideration will be given to this latest stock assessment, as well as the views expressed by the Ecology Action Center, harvesters, processors, the provinces, Indigenous interests and other Environmental groups at the AMAC meeting, in establishing management measures for the 2017 fishery.

The Department has already initiated a number of actions to address those issues you identified from the 2016 Fall Auditor General Report on Sustaining Canada's Major Fish Stocks, including development of a limit reference point and improved catch monitoring. As discussed at the AMAC meeting a mackerel rebuilding plan working group will be convened that will focus on setting an Upper Stock Reference point as well as harvest control rules to support rebuilding this stock into the healthy zone of the PA Framework. Over the coming year, DFO will also be engaging with stakeholders in the development of a rebuilding plan for this stock.

DFO is committed to balancing economic opportunity and the financial stability of the Atlantic mackerel fishery with the sustainability of this resource. This species is an important fishery to many fishers in Atlantic Canada and I appreciate your taking the time to express your thoughts on this issue. DFO will take your views as well as the views of other Committee members into consideration when making management decisions about this fishery.

Thank you for writing about this important issue.

Yours sincerely,

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Dominic LeBlanc, P.C., Q.C., M.P.
Minister of Fisheries, Oceans and the Canadian Coast Guard

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Ministerial Correspondence docket #
No. du dossier de la correspondance ministérielle : 2017-001-00807

Date Received in MCCU / *Date de réception en UCCM* :		**5/1/2017**
Action:	Name / *Nom* and / *et* Title, Branch / *Titre et Direction*	Date:
Drafted by / *Rédigé par:*		Date:
Approved by / *Approuvé par*		Date:
Approved by / *Approuvé par*		Date:
Edited by / *Révisé par*		Date:
Approved by / *Approuvé par*		Date:
Approved by / *Approuvé par*		Date:

Other Consultations (e.g.: Other Government Departments) / *Autres consultations (par exemple, autres ministères du gouvernement)*

Name / *Nom* and / *et* Title, Branch / *Titre et Direction*	Date
	Date:
	Date:

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[redacted]
WWF-Canada
[redacted]

Dear [redacted]

Thank you for your correspondence of
I am writing in response to your correspondence of

Please provide input here. Input can be:

- point form, bullet notes;
- source material such as an attachment or a link to briefing notes, informal backgrounders, media lines, QP notes, etc.; and/or
- fully drafted and formatted paragraphs.

MCCU will copy-edit all input prior to submitting the draft reply for further approvals (track changes can be viewed in previous versions of the EKME document).

Note:

- If input is provided in bullet form, MCCU may consult with the input provider/SME to confirm that MCCU's copy-edits to the bullet notes have been properly transcribed into paragraph form.
- The input provider / SME can also request to see the copy-edited Draft Reply prior to it being sent for further approvals.
- More information on the MCCU process is outlined in the DFO Business Rules for GCCMS (EKME #3506136, **Annex 5** MECTS-3506136.DOC.DRF).

Thank you for writing. / Thank you for providing me with your thoughts on this matter.
I trust that my response has addressed your concerns. / I regret my response could not be more favourable. / I look forward to continued collaboration …

Yours sincerely,

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Dominic LeBlanc, P.C., Q.C., M.P.
Minister of Fisheries, Oceans and the Canadian Coast Guard

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Drafted by / *Rédigé par:*		Date:
Approved by / *Approuvé par*		Date:
Approved by / *Approuvé par*		Date:
Edited by / *Révisé par*		Date:
Approved by / *Approuvé par*		Date:
Approved by / *Approuvé par*		Date:

Other Consultations (e.g.: Other Government Departments) / *Autres consultations (par exemple, autres ministères du gouvernement)*

Name / *Nom* and / *et* Title, Branch / *Titre et Direction*	Date
	Date:
	Date:

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s.21(1)(b)

Lester, Brian

From: Lester, Brian
Sent: 2017–May-10 10:00 AM
To: Lapointe, Sylvie
Cc: Burns, Adam; Cawthray, Jenness
Subject: RE: 2017 ATLANTIC MACKEREL MANAGEMENT MEASURES

Currently finalizing all regional and legal comments that were received at the end of the day yesterday. It will be in approvals later today (hopefully this am.).

From: Lapointe, Sylvie
Sent: 2017–May-10 9:52 AM
To: Lester, Brian
Cc: Burns, Adam; Cawthray, Jenness
Subject: FW: 2017 ATLANTIC MACKEREL MANAGEMENT MEASURES
Importance: High

Hi –when is the mackerel memo coming?
Thx.

Sylvie

From: Vincent, Patrick
Sent: Tuesday, May 9, 2017 5:16 PM
To: Lapointe, Sylvie <Sylvie.Lapointe@dfo-mpo.gc.ca>
Cc: Burns, Adam <Adam.Burns@dfo-mpo.gc.ca>; Lester, Brian <Brian.Lester@dfo-mpo.gc.ca>; Cawthray, Jenness <cawthrayj.Cawthray@dfo-mpo.gc.ca>; Lemire, Maryse <Maryse.Lemire@dfo-mpo.gc.ca>
Subject: 2017 ATLANTIC MACKEREL MANAGEMENT MEASURES
Importance: High

Bonjour Sylvie,

Tu trouveras ci-dessous les commentaires de la région du Québec concernant le mémo et faisant suite à notre appel de vendredi dernier.

1. TAC

[redacted]

2. Mesures de Gestion

La mise en œuvre de l'appel d'entrée (hail-in) et de 25% de vérification à quai dans la région du Golfe est un pas dans la bonne direction. Il est cependant peu probable que ces mesures permettent dès la première année de réduire la quantité de prises non déclarées de 6 000 t à 4 000 t, tel que précisé dans le mémo. Le Hail-In et la vérification à quai permettront de faire légèrement baisser la quantité de captures non déclarées, mais probablement pas de cet ordre de grandeur, car elles n'auront pas d'effet sur la pêche à l'appât.
En 2016, les Sciences ont évalué que les captures non déclarées représentaient environ 6000 t, et ont précisé que cette quantité était probablement sous-estimée.

[redacted]

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Il serait intéressant d'indiquer dès cette année la mise en place de nouvelles mesures de gestion pour les années suivantes. Nous souhaiterions par exemple que la mise en place des livres de bord obligatoires soit une avenue envisagée, comme c'est déjà le cas dans cette région. Nous comprenons la charge de travail associée à la saisie des données, aussi l'avenue du journal de bord électronique serait certainement une solution à la charge de travail.

Merci,

Patrick Vincent

Directeur général régional, Région du Québec
Pêches et Océans Canada / Gouvernement du Canada
104, rue Dalhousie, Québec, Qc, G1K 7Y7
Patrick.Vincent@dfo-mpo.gc.ca / Tél.: 418-648-4158

Regional Director General, Quebec Region
Fisheries and Oceans Canada / Government of Canada
104 Dalhousie Street, Québec, Qc, G1K 7Y7
Patrick.Vincent@dfo-mpo.gc.ca / Tel.: 418-648-4158

De : Cawthray, Jenness
Envoyé : May-09-17 11:05 AM
À : Rivierre, Antoine; Dunne, Erin; Mallet, Pierre; Gaudet, Mario; Thomas, Tashina; Waters, Christa; Marentette, Julie
Cc : Lester, Brian
Objet : RE: Mackerel Memo
Importance : Haute

Hi All,
We were waiting for comments from RDGs on the memo by this morning. Can you follow up in your Regions to see if there are comments? We would like to move the memo this afternoon.
Thank you!
Jenness

From: Rivierre, Antoine
Sent: May-08-17 3:26 PM
To: Cawthray, Jenness; Dunne, Erin; Mallet, Pierre; Gaudet, Mario; Thomas, Tashina; Waters, Christa; Marentette, Julie
Cc: Lavoie, Pierre; Lester, Brian
Subject: RE: Mackerel Memo

Good for me !

Antoine

De : Cawthray, Jenness
Envoyé : May-08-17 2:20 PM
À : Dunne, Erin; Mallet, Pierre; Gaudet, Mario; Thomas, Tashina; Waters, Christa; Rivierre, Antoine; Marentette, Julie
Cc : Lavoie, Pierre; Lester, Brian
Objet : Mackerel Memo
Importance : Haute

Hi Folks,
Just wanted to let you know that it sounds like we will move forward with a 10,000 commercial TAC. If you have any concerns on this, please let me know ASAP. We are just waiting for final comments from the Regions, Science, and Legal before we finalize the memo tomorrow and move through approvals.
Thanks,

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Jenness Cawthray
Senior Fisheries and Aquaculture Management Officer | Agent principal, Gestion des pêches et de l'aquaculture
Fisheries and Oceans | Pêches et océans
200 rue Kent Street - 13S013 Ottawa, ON, K1A 0E6
Jenness.Cawthray@dfo-mpo.gc.ca
Telephone | Téléphone (613) 998-1524
Facsimile | Télécopieur (613) 990-7051
Government of Canada | Gouvernement du Canada

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Krohn, Martha

From: Landry, Jean
Sent: May-11-17 12:29 PM
To: Krohn, Martha; Marentette, Julie
Subject: Fw: 2017-045-00376 Atlantic Mackerel memo
Attachments: 2017-045-00376 Tab 2.pdf

Categories: Red Category

The missing piece in the package
Sent from my BlackBerry 10 smartphone on the Rogers network.

From: Piché, Ashley <Ashley.Piche@dfo-mpo.gc.ca>
Sent: Thursday, May 11, 2017 12:27 PM
To: Murray, Marie-Michèle
Cc: Boudreau, Carol-Ann; Landry, Jean
Subject: RE: 2017-045-00376 Atlantic Mackerel memo

Hi,

Please see attachment for Tab 2.

Thanks

From: Murray, Marie-Michèle
Sent: May-11-17 12:06 PM
To: Piché, Ashley
Cc: Chin, Melanie
Subject: 2017-045-00376 Atlantic Mackerel memo
Importance: High

Hi Ashley,

We're missing the Tab 2 (*Science Assessment of Atlantic Mackerel*) of this urgent memo. It does not appear to be in CCM either.

Can you get EFM to send it ASAP? And would you mine cc'ing Carol-Ann Boudreau and Jean Landry as well once/if you receive it?

Thank you so much!
Marie-Michèle Murray
Resource Planning Officer, Ecosystem Science Directorate
Fisheries and Oceans Canada / Government of Canada
Marie-Michele.Murray@dfo-mpo.gc.ca / Tel: 613-990-0282

Agente de planification des ressources, Direction générale des sciences et des écosystèmes
Pêches et Océans Canada / Gouvernement du Canada
Marie-Michele.Murray@dfo-mpo.gc.ca / Tél. : 613-990-0282

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Krohn, Martha

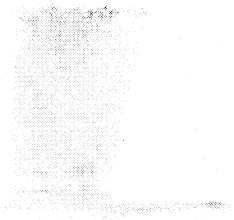
From: Boudreau, Carol-Ann
Sent: May-11-17 11:58 AM
To: Krohn, Martha
Subject: FW: 2017 atlantic Mackerel management measures - for rush approval by NOON May 11, 2017
Attachments: MECTS-3766140.DOCX.DRF

Categories: Red Category

As requested by Jean.

From: Boudreau, Carol-Ann
Sent: May-11-17 11:19 AM
To: Landry, Jean
Subject: 2017 atlantic Mackerel management measures - for rush approval by NOON May 11, 2017

Copy of 2017 Atlantic Mackerel management measures.



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Bilmer, Angela

From: Ryan, Sandra-Lee
Sent: May-11-17 1:36 PM
To: Northcott, Paul
Cc: Bilmer, Angela; D'Angelo, Louise-Anne; Banville, Pierrette
Subject: RE: 2017-001-00678 - Atlantic Mackerel Advisory Committee - DM approval

Hi Paul,

Can you please formally package this docket and bring the hard copy to DMO reception.

To ensure we don't miss anything we prefer to receive dockets formally in hard copy so they are processed correctly and promptly.

Thank you,

Sandra Ryan
Correspondence Officer | Agente de correspondance
Deputy Minister's Office | Cabinet de la sous-ministre
Fisheries and Oceans Canada | Pêches et Océans Canada
Telephone | Téléphone (613) 991-0384

From: Northcott, Paul
Sent: May-11-17 1:31 PM
To: Ryan, Sandra-Lee
Cc: Bilmer, Angela
Subject: 2017-001-00678 - Atlantic Mackerel Advisory Committee - DM approval

Good afternoon,

The attached docket on the Atlantic Mackerel Advisory Committee has recently been approved by the acting/DG of Integrated Resource Management.

On the incoming Ms. Bilmer indicated that the DM should approve before the letter is submitted to MINO.

Could you please provide this approval by May 15.

Also, please indicate any comments or revisions using track changes.

Paul Northcott

Writer-Editor, Ministerial Correspondence Control Unit
Fisheries and Oceans Canada / Government of Canada
Paul.Northcott@dfo-mpo.gc.ca / Tel: 613-990-9954

Rédacteur/Réviseur, Unité du contrôle de la correspondance ministérielle
Pêches et Océans Canada / Gouvernement du Canada
Paul.Northcott@dfo-mpo.gc.ca / Tél. : 613-990-9954

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s.19(1)

[redacted]

Dear [redacted]

Thank you for your correspondence of March 27, 2017, regarding your concerns about the Atlantic Mackerel Advisory Committee meeting.

I understand that mackerel is one of the species important to your fish-buying business and, as a result, you requested a seat at the Committee meeting. As you may be aware, the Committee is composed of representatives from Fisheries and Oceans Canada (DFO), the fishing industry, the processing industry and the provinces of Newfoundland and Labrador, Nova Scotia, Quebec, New Brunswick and Prince Edward Island. The Integrated Fisheries Management Plan for Atlantic mackerel states who can sit at the meeting table. The number of industry members for each DFO region who can sit at the meeting table is limited to one representative per Indigenous group or community, three for the inshore fleets, one for the large seiners and two for the processing industry. Other interested parties may attend as observers.

Although you were not provided a seat at the table, I am pleased to hear that you attended the advisory meeting as an observer and that you had an opportunity to present your views. I would like to assure you that DFO is committed to balancing economic opportunity and the financial stability of the Atlantic mackerel fishery with the sustainability of this resource.

Again, thank you for writing.

Yours sincerely,

Dominic LeBlanc, P.C., Q.C., M.P.
Minister of Fisheries, Oceans and the Canadian Coast Guard

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Ministerial Correspondence docket #
No. du dossier de la correspondance ministérielle : 2017-001-00678

Date Received in MCCU / *Date de réception en UCCM* :		**3/28/2017(PN)**
Drafted by / *Rédigé par:*	Brian Lester, Fisheries Resource Management Officer (Groundfish), Fisheries Resource Management	Date: April 28, 2017
Approved by / *Approuvé par*	Randy Jenkins, Acting Senior Director, Integrated Resource Management on behalf of Adam Burns, Acting Director General, Fisheries Resource Management **Are additional approvals required? N.**	May 5, 2017
Edited by / *Révisé par*	Sharon Griffiths, Senior Editor, MCCU	Date: May 11, 2017
Approved by / *Approuvé par*	Catherine Blewett Deputy Minister Fisheries and Oceans Canada	Date: May xx, 2017
An information copy will be sent to Philippe Morel, Acting Senior Assistant Deputy Minister, Ecosystems and Fisheries Management		

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Butcher, Ashley

From: Chin, Melanie
Sent: Thursday, May 11, 2017 6:40 PM
To: Butcher, Ashley; French, Christopher
Cc: Malko, Carol; Piché, Ashley; White, Andrea; Smith, Melannie; Murray, Marie-Michèle
Subject: FW: Mackerel 2017-045-00376
Attachments: MECTS-#3766140-v10-2017_ATLANTIC_MACKEREL_MANAGEMENT_MEASURES.DOCX

Ashley B, Trevor had approved version #10 of this memo that is saved in CCM, also attached here.

Ashley P, please update CCM to indicate this.

Thanks.

From: French, Christopher
Sent: 2017–May-11 2:35 PM
To: Chin, Melanie
Subject: Mackerel 2017-045-00376

Hi,

Sylvie is reviewing now. Any idea when we may see EOSs version?

Tks

Chris French
A/Senior Advisor to the ADM, Ecosystems and Fisheries Management
Conseiller principal intérimaire auprès du SMA, Gestion des écosystèmes et des pêches
Fisheries and Oceans Canada I Pêches et Océans Canada
christopher.french@dfo-mpo.gc.ca / Tel: 613-949-9028

Pages 2955 to / à 2960

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pages 2979 to / à 2984

Page 2961

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page 3014

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s.21(1)(b)

Beamish, Kayla

From: Beamish, Kayla
Sent: May 11, 2017 11:39 AM
To: Lester, Brian
Subject: FW: ML_Mackerel_TAC.docx
Attachments: ML_Mackerel_TAC.docx

Mackerel

From: Beamish, Kayla
Sent: May 10, 2017 12:12 PM
To: Cawthray, Jenness
Subject: RE: ML_Mackerel_TAC.docx

Hi Jenness,

Thanks for the edits – I think these may be the ones Brian shared with me a little while back...either way this new version has been saved to my folders here. Still no update on timing for this one I suppose (given the "May ? TBC" in the issue section). Do we have a ballpark?

My non-program brain is having trouble digesting this one. Is there a simpler way to say this?

- The established harvest level meets the Department's commitment to the Precautionary Approach in that there is a greater than 75% probability that the stock biomass will continue to increase at the established harvest level. Specifically, with commercial TAC of 10,000t [redacted] taking into account improved catch monitoring in the fishery.

Also wondering who spokes is for this one. Listed as TBC for now.

Thanks!
Kayla

From: Cawthray, Jenness
Sent: May 10, 2017 10:56 AM
To: Beamish, Kayla
Subject: ML_Mackerel_TAC.docx
Importance: High

Hi Kayla!

Please see attached media lines for TAC and updated memo. The memo should move quickly though approvals (hopefully).
Can review the media lines? Clean them up and send a copy back to Brian and I for a quick review.
Thanks!

Jenness Cawthray
Senior Fisheries and Aquaculture Management Officer |
Agent principal, Gestion des pêches et de l'aquaculture
Fisheries and Oceans | Pêches et océans

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200 rue Kent Street - 13S013 Ottawa, ON, K1A 0E6
Jenness.Cawthray@dfo-mpo.gc.ca
Telephone | Téléphone (613) 998-1524
Facsimile | Télécopieur (613) 990-7051
Government of Canada | Gouvernement du Canada

No information has been removed or severed from this page

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MEDIA LINES

Atlantic Mackerel Total Allowable Catch 2017

Issue

On May XX (TBC), Fisheries and Oceans Canada (DFO) will announce the 2017 Total Allowable Catch (TAC) decision for the Atlantic Mackerel fishery. The TAC for the commercial catch in 2017 will be set at 10,000 tonnes, which is an increase from the 2016 TAC of 8,000 tonnes. Given increased reporting requirements it is anticipated that undeclared/unreported will be significantly reduced this year. The department can expect media calls on the decision, as industry's expectations were for a significant TAC increase, however their request was not supported by the science advice (which the Department has followed). We would expect that there will also be negative reaction from the Ecology Action Center and some Indigenous groups that suggested a reduced harvest level given the stock is assessed to be in the critical zone.

The Atlantic Mackerel Advisory Committee meeting took place on March 30 in Halifax, Nova Scotia. DFO chaired the meeting and upwards of 60 stakeholders, including Indigenous groups, harvesters, processors, environmental non-government organizations, and the four Atlantic Provinces and Quebec.

Media lines

- The 2017 Total Allowable Catch for the commercial fishery is set at 10,000 tonnes under a one-year management plan. This increase recognizes both the projected increases in the biomass over the coming year and the commitment to address unreported landings in the fishery.

- Fisheries management decisions for all stocks, including Atlantic mackerel include consideration of the best available science as well as input from Indigenous groups, harvesters, processors, environmental non-government organizations and the provinces.

- The Department undertook a new stock assessment for Atlantic mackerel this spring. This updated assessment was discussed with members of the Atlantic Mackerel Advisory Committee on March 30 and input from stakeholders played an important role in the department's TAC decision.

- While the science assessment has shown some preliminary signs of rebuilding, the stock assessment indicates that the stock remains in the critical zone under DFO's Precautionary Approach framework.

- The established harvest level meets the Department's commitment to the Precautionary Approach in that there is a greater than 75% probability that the stock biomass will continue to increase at the established harvest level. Specifically, with

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DRAFT

commercial TAC of 10,000t [redacted] taking into account improved catch monitoring in the fishery.

- Fisheries and Oceans Canada is committed to balancing economic opportunity and financial stability of the Atlantic mackerel fishery while promoting the sustainability of this resource.

- The Department has established a one-year TAC in line with the industry request to revisit the harvests level at the end of the 2017 fishery.

If pressed:

- Management decisions for this fishery consider long-term conservation and sustainability of the stock and take into account the best available science, the Department's management plan, and views expressed by stakeholders during consultations with industry.

- While industry supported and agreed with the general trends of stock rebuilding indicated in the stock assessment, their views are that the overall biomass is significantly larger than the science would indicate based on what they experienced in the 2016 fishery.

- The Department has initiated a DFO/ industry rebuilding plan working group for this stock that will meet over the coming year to develop a plan for consideration by the Atlantic Mackerel Advisory Committee.

If pressed on judicial review:

- The Department will not comment on this matter, as it currently before the Court.

Spokesperson: TBC

Program Contact: Brian Lester, Adam Burns

Communications Contact: Kayla Beamish

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s.21(1)(b)

Patterson, Pauline

De: Rivierre, Antoine
Envoyé: May-11-17 8:47 AM
À: Lester, Brian
Objet: RE: Mackerel Memo

Merci beaucoup !

Antoine

De : Lester, Brian
Envoyé : May-11-17 8:47 AM
À : Rivierre, Antoine
Cc : Boudreau, Suzie; Lemire, Maryse
Objet : RE: Mackerel Memo

Bonjour Antoine: J'ai reçu les commentaires de Patrick et la position de la région QC est comprise. Le memo a été ajusté pour refléter une recommandation ministérielle d'une capture total admissible de 10 000 tonnes pour la pêche commerciale pour 2017.

Le directeur général régional sera copié à la prochaine version de la note.

Brian

From: Rivierre, Antoine
Sent: 2017–May-11 8:29 AM
To: Lester, Brian
Cc: Boudreau, Suzie; Lemire, Maryse
Subject: RE: Mackerel Memo

Bonjour Brian,
Hier, j'ai vu passer une version préliminaire du mémo signée par Patrick Vincent et envoyée en même temps que ses commentaires à Sylvie Lapointe.

Je te confirme donc que la **position de la région du Québec est un TAC de 10 000 t,** et que le document envoyé en pièce jointe n'aurait normalement pas dû être signé par Patrick.

N'hésite pas à me contacter si tu as des questions.

Antoine

De : Lester, Brian
Envoyé : May-10-17 3:35 PM
À : Mallet, Pierre; Waters, Christa; Rivierre, Antoine; Dunne, Erin; Gaudet, Mario; Thomas, Tashina; Marentette, Julie
Cc : Lavoie, Pierre
Objet : RE: Mackerel Memo

Will let you know if anything is confirmed.

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s.19(1)
s.21(1)(b)

From: Cawthray, Jenness
Sent: 2017–May-10 2:20 PM
To: Mallet, Pierre; Waters, Christa; Rivierre, Antoine; Dunne, Erin; Gaudet, Mario; Thomas, Tashina; Marentette, Julie
Cc: Lavoie, Pierre; Lester, Brian
Subject: RE: Mackerel Memo

Hmmm. I have heard nothing about this! [redacted]
☺

From: Mallet, Pierre
Sent: May-10-17 2:12 PM
To: Waters, Christa; Rivierre, Antoine; Cawthray, Jenness; Dunne, Erin; Gaudet, Mario; Thomas, Tashina; Marentette, Julie
Cc: Lavoie, Pierre; Lester, Brian
Subject: Re: Mackerel Memo

Just heard that too

Sent from my BlackBerry 10 smartphone on the Rogers network.

From: Waters, Christa
Sent: Wednesday, May 10, 2017 3:09 PM
To: Rivierre, Antoine; Cawthray, Jenness; Dunne, Erin; Mallet, Pierre; Gaudet, Mario; Thomas, Tashina; Marentette, Julie
Cc: Lavoie, Pierre; Lester, Brian
Subject: RE: Mackerel Memo

Hello,

[redacted]

Christa

Christa Waters
Regional Senior Fisheries Management Advisor
Resource Management | Gestion des Pêches
Maritimes Region | Région des Maritimes
Telephone | Téléphone 902-293-6541

From: Rivierre, Antoine
Sent: May-08-17 4:26 PM
To: Cawthray, Jenness; Dunne, Erin; Mallet, Pierre; Gaudet, Mario; Thomas, Tashina; Waters, Christa; Marentette, Julie
Cc: Lavoie, Pierre; Lester, Brian
Subject: RE: Mackerel Memo

Good for me !

Antoine

De : Cawthray, Jenness
Envoyé : May-08-17 2:20 PM
À : Dunne, Erin; Mallet, Pierre; Gaudet, Mario; Thomas, Tashina; Waters, Christa; Rivierre, Antoine; Marentette, Julie
Cc : Lavoie, Pierre; Lester, Brian

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Objet : Mackerel Memo
Importance : Haute

Hi Folks,
Just wanted to let you know that it sounds like we will move forward with a 10,000 commercial TAC. If you have any concerns on this, please let me know ASAP. We are just waiting for final comments from the Regions, Science, and Legal before we finalize the memo tomorrow and move through approvals.
Thanks,

Jenness Cawthray
Senior Fisheries and Aquaculture Management Officer |
Agent principal, Gestion des pêches et de l'aquaculture
Fisheries and Oceans | Pêches et océans
200 rue Kent Street - 13S013 Ottawa, ON, K1A 0E6
Jenness.Cawthray@dfo-mpo.gc.ca
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Facsimile | Télécopieur (613) 990-7051
Government of Canada | Gouvernement du Canada

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Cormier, Mélanie

De: Deslauriers, Marcelle
Envoyé: 11 mai 2017 17:00
À: Rivierre, Antoine
Objet: Avis aux pêcheurs : Maquereau zone 16/ Notice to fishers : Area 16 Mackerel
Pièces jointes: Maquereau 16 - Avis aux pêcheurs - 2017-05-11.pdf; Maquereau 16 - Avis aux pêcheurs - 2017-05-11 en.pdf

(English follows)

Bonjour,

Veuillez prendre note de *l'Avis aux pêcheurs* ci-inclus concernant l'ouverture de la saison de pêche au maquereau bleu dans la zone 16 – flottille du Québec.

Please take note of the Notice to Fishers included concerning the opening of the fishing season for area 16 atlantic Mackerel- Quebec fleet

Cordialement,

Marcelle Deslauriers

Pour/for :

Antoine Rivierre

Agent régional principal,
Espèces pélagiques, mammifères marins
Gestion de la ressource et des affaires autochtones / Pêches et Océans Canada / Gouvernement du Canada
Antoine.rivierre@dfo-mpo.gc.ca / Tél. : 418.640.2636

Regional senior Advisor,
Pelagic species, Marine Mammals
Resource Management and Aboriginal Affairs / Fisheries and Oceans Canada / Government of Canada
Antoine.rivierre@dfo-mpo.gc.ca / Tél. : 418.640.2636

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Avis aux pêcheurs

MAQUEREAU BLEU – ZONE 16 – FLOTTILLE DU QUEBEC
OUVERTURE DE LA SAISON DE PÊCHE AU MAQUEREAU ET MESURES DE GESTION POUR 2017

Québec – Le 11 mai 2017

Pêches et Océans Canada – Région du Québec informe les titulaires de permis de pêche au maquereau du Québec que la saison de pêche du maquereau dans la zone de pêche 16 débutera le 15 mai 2017 et que les mesures de gestion de 2016 demeureront en vigueur en 2017 :

L'appel d'entrée à quai

Un appel d'entrée est requis avant d'arriver au quai. Avant le début de la saison de pêche, le titulaire du permis devra avoir conclu avec une compagnie de vérification à quai légalement désignée par Pêches et Océans Canada une entente relative à l'appel d'entrée.

Longueur minimale

La longueur minimale demeure fixée à 263 mm à l'exclusion des maquereaux capturés au filet maillant.

Formulaire combiné

Les pêcheurs doivent se procurer leur livret de formulaires combinés auprès des fournisseurs préqualifiés par le MPO. La liste est disponible à l'adresse suivante : http://www.dfo-mpo.gc.ca/fm-gp/sdc-cps/nir-nei/log-suppliers-fra.htm

La section journal de bord doit être dûment remplie avant l'arrivée à quai et le formulaire complété doit être envoyé au MPO dans les 7 jours suivant le débarquement lorsqu'il débarque dans la région du Québec; ou dans les 10 jours suivant le débarquement lorsqu'il débarque dans une région autre que celle du Québec.

Pour information additionnelle

Veuillez consulter notre site internet à l'adresse suivante : http://www.dfo-mpo.gc.ca/fm-gp/sdc-cps/index-fra.htm

Canada

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Notice to Fish Harvesters

ATLANTIC MACKEREL – AREA 16 – QUEBEC FLEET
OPENING OF THE FISHING SEASON AND MANAGEMENT MEASURES FOR 2017

Quebec – May 11, 2017

Fisheries and Oceans Canada – Quebec Region informs the Atlantic Mackerel fishing licence holders from Quebec that the mackerel fishing season in fishing area 16 will begin on May 15 2017 and that the 2016 management measures will remain in effect in 2017:

Hail in

A hail in is required before landing at wharf. Before the beginning of the 2016 fishing season, licence holders must have entered into an agreement with a dockside monitoring company legally designated by Fisheries and Oceans Canada for the hail in.

Minimum length

The minimum length remains set at 263 mm excluding mackerel caught using gillnets.

Combined form

Fish harvester must acquire their booklet of Combined Forms from a Prequalified supplier, identified by Fisheries and Oceans Canada. The list is available at the following link:
http://www.dfo-mpo.gc.ca/fm-gp/sdc-cps/nir-nei/log-suppliers-eng.htm

The logbook section must be completed before landing at wharf and the Combined Form must be forwarded to DFO within 7 days when landing in the Quebec Region or within 10 days when landing outside of the Quebec Region.

For additional information

Please visit our website at the following address: http://www.dfo-mpo.gc.ca/fm-gp/sdc-cps/index-eng.htm

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Cormier, Mélanie

De: Gaudet, Mario
Envoyé: 11 mai 2017 17:01
À: Quinn, Frank; LeCouffe, Marc; Mallet, Pierre; Thomas, Tashina; Legere, Luc; Comeau, Sandra J; Belliveau, Ron; Gallant, Wayne; Leblanc, Jean; Lapierre, Daniel; MacEachern, Leroy; Dwyer, Alan; Mills, Chris D; MacIsaac, Colin; Smith, Jennifer R (Gulf); Lemay, Gaëlle; St-Coeur, John; Mallet, Manon; Hopper, Stephanie; Waters, Christa; Rivierre, Antoine; Lester, Brian; Cawthray, Jenness; Leblanc, Arthur; MacRae, Kent; Naud, Marc; Richard, Josée; Sylvestre, Jean-François; Richard, Simon; Dunne, Erin; Bliss, Doug
Cc: XGLF-GRP, Communications
Objet: Notice to Fish Harvesters - Mackerel / Avis aux pêcheurs - Maquereau
Pièces jointes: Notice to fish harvesters - mackerel 2017.pdf; Avis aux pêcheurs - maquereau 2017.pdf

Please see attachment « Notice to fish harvesters – mackerel 2017 » related to the season opening for the mackerel fishery in mackerel fishing area 16 and the new management measures to be implemented for this year.

Also, please feel free to circulate to any DFO official missing on this list.

The notice will be provided to the First Nations, provinces and representatives of fish harvesters tomorrow when the licence conditions will be released on line.

Prière de consulter la pièce jointe « Avis aux pêcheurs – maquereau 2017 » reliée à l'ouverture de la saison de pêche du maquereau pour la zone de pêche du maquereau 16 et les nouvelles mesures de gestion qui seront implantées cette année.

Veuillez également partager l'information avec tout employé du MPO manquant sur cette liste.

L'avis sera distribué aux Premières Nations, aux provinces et aux représentants des pêcheurs demain dès que les conditions de permis seront disponibles en ligne.

Thanks! / Merci!

Mario Gaudet

Acting Senior Regional Fisheries and Aquaculture Management Officer
Fisheries and Oceans Canada / Government of Canada
mario.gaudet@dfo-mpo.gc.ca / Tel: 506 851-3526

Agent régional principal par intérim, Gestion des Pêches et de l'Aquaculture
Pêches et Océans Canada / Gouvernement du Canada
mario.gaudet@dfo-mpo.gc.ca / Tel: 506 851-3526

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Fisheries and Oceans Canada
Gulf Region

Notice to Fish Harvesters

Season opening and new management measures for the mackerel fishery in Mackerel Fishing Area 16 (Southern Gulf of St. Lawrence)

Moncton, NB – May 11, 2017 –The Department of Fisheries and Oceans (DFO) announced today the mackerel fishery in Mackerel Fishing Area 16 will open on May 15, 2017, with new management measures being implemented for this year for the Gulf fleets.

The new management measures being put in place are to improve monitoring and reporting of catches in the mackerel fishery. These measures include mandatory hail-in by reporting estimated weight of catch for every fishing trip and 25 % dockside monitoring coverage for landings. Eligible harvesters wishing to participate in this fishery are now able to obtain their mackerel licence through the National Online Licensing System. Harvesters will also be required to have entered into an agreement with a dockside monitoring company designated by DFO prior to the start of their mackerel fishing season.

Discussions on the development of a rebuilding plan for mackerel will continue over the next year in collaboration with various stakeholders to identify options to improve the state of the stock.

The Total Allowable Catch will be announced at a later date.

For more information, please contact:

Mario Gaudet
Mario.gaudet@dfo-mpo.gc.ca
Acting Regional senior FAM officer
Fisheries and Oceans Canada
Moncton, New Brunswick
506-851-3526

EKME: 3774662

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Pêches et Océans Canada
Région du Golfe

Avis aux pêcheurs

Ouverture de la saison de pêche du maquereau et nouvelles mesures de gestion pour la zone de pêche du maquereau 16 (sud du golfe du Saint-Laurent)

Moncton, N.-B. – le 11 mai 2017 – Le ministère des Pêches et des Océans (MPO) annonce que la saison de pêche du maquereau dans la zone de pêche du maquereau 16 débutera le 15 mai 2017, avec de nouvelles mesures de gestion qui entreront en vigueur dès cette année pour les flottilles du golfe.

Les nouvelles mesures de gestion seront implantées afin d'améliorer la surveillance et le suivi des captures dans la pêche du maquereau. Ces mesures de gestion incluent un appel d'entrée obligatoire afin de rapporter la quantité estimée des captures pour chaque sortie en mer et une couverture de 25 % de vérification à quai des débarquements. Les pêcheurs éligibles qui souhaitent participer à cette pêche pourront obtenir des conditions de permis de maquereau à travers le système national d'émission des permis à partir de maintenant. Les pêcheurs devront également avoir conclus une entente avec une compagnie de vérification à quai désignée par le MPO avant d'entamer leur saison de pêche du maquereau.

Des discussions entourant l'élaboration d'un plan de rétablissement du maquereau vont se poursuivre au cours de la prochaine année, en collaboration avec les différents intervenants, afin d'identifier des pistes pour améliorer l'état du stock.

Le total admissible des captures sera annoncé à une date ultérieure.

Pour plus d'information, prière de contacter:

Mario Gaudet
Mario.gaudet@dfo-mpo.gc.ca
Agent régional principal par intérim, GPA
Pêches et Océans Canada
Moncton, Nouveau-Brunswick
506-851-3526

EKME: 3774656

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Cormier, Mélanie

De: Lemire, Maryse
Envoyé: 11 mai 2017 09:35
À: Rivierre, Antoine
Cc: Boudreau, Suzie
Objet: TR: 2017 ATLANTIC MACKEREL MANAGEMENT MEASURES - clarification-QC région

Pour votre information et dossier.

Maryse

Maryse Lemire

Directrice régionale de la gestion des pêches
Pêches et Océans Canada / Gouvernement du Canada
Maryse.Lemire@dfo-mpo.gc.ca / Tél.: 418-648-5783

Fisheries Management Regional Director
Fisheries and Oceans Canada / Government of Canada
Maryse.Lemire@dfo-mpo.gc.ca / Tel.: 418-648-5783

Ma langue, une question de respect
My language, a matter of respect

De : Vincent, Patrick
Envoyé : 11 mai 2017 08:38
À : Lapointe, Sylvie <Sylvie.Lapointe@dfo-mpo.gc.ca>
Cc : Burns, Adam <Adam.Burns@dfo-mpo.gc.ca>; Lester, Brian <Brian.Lester@dfo-mpo.gc.ca>; Cawthray, Jenness <cawthrayj.Cawthray@dfo-mpo.gc.ca>; Lemire, Maryse <Maryse.Lemire@dfo-mpo.gc.ca>; Gagnon, Marie <Marie.Gagnon@dfo-mpo.gc.ca>; Milot, Lucie <Lucie.Milot@dfo-mpo.gc.ca>
Objet : RE: 2017 ATLANTIC MACKEREL MANAGEMENT MEASURES - clarification-QC région

Bonjour Sylvie,

Simplement pour t'informer qu'il faut prendre en considération les commentaires fournis par Patrick dans son courriel précédent.

Le document *2017-045-00376 AMMM approuvé DGRQ-pdf* paraphé par Patrick n'aurait pas dû être inclus puisque ce dernier n'approuvait pas le contenu de la note telle qu'elle était rédigée.

Si vous avez des questions, n'hésitez pas.

Merci.

Lucie Milot pour

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s.21(1)(b)

Patrick Vincent

Directeur général régional, Région du Québec
Pêches et Océans Canada / Gouvernement du Canada
104, rue Dalhousie, Québec, Qc, G1K 7Y7
Patrick.Vincent@dfo-mpo.gc.ca / Tél.: 418-648-4158

Regional Director General, Quebec Region
Fisheries and Oceans Canada / Government of Canada
104 Dalhousie Street, Québec, Qc, G1K 7Y7
Patrick.Vincent@dfo-mpo.gc.ca / Tel.: 418-648-4158

De : Vincent, Patrick
Envoyé : 9 mai 2017 17:16
À : Lapointe, Sylvie
Cc : Burns, Adam; Lester, Brian; Cawthray, Jenness; Lemire, Maryse
Objet : 2017 ATLANTIC MACKEREL MANAGEMENT MEASURES
Importance : Haute

Bonjour Sylvie,

Tu trouveras ci-dessous les commentaires de la région du Québec concernant le mémo et faisant suite à notre appel de vendredi dernier.

1. TAC

[redacted]

2. Mesures de Gestion

La mise en œuvre de l'appel d'entrée (hail-in) et de 25% de vérification à quai dans la région du Golfe est un pas dans la bonne direction. Il est cependant peu probable que ces mesures permettent dès la première année de réduire la quantité de prises non déclarées de 6 000 t à 4 000 t, tel que précisé dans le mémo. Le Hail-In et la vérification à quai permettront de faire légèrement baisser la quantité de captures non déclarées, mais probablement pas de cet ordre de grandeur, car elles n'auront pas d'effet sur la pêche à l'appât.
En 2016, les Sciences ont évalué que les captures non déclarées représentaient environ 6000 t, et ont précisé que cette quantité était probablement sous-estimée.

[redacted]

Il serait intéressant d'indiquer dès cette année la mise en place de nouvelles mesures de gestion pour les années suivantes. Nous souhaiterions par exemple que la mise en place des livres de bord obligatoires soit une avenue envisagée, comme c'est déjà le cas dans cette région. Nous comprenons la charge de travail associée à la saisie des données, aussi l'avenue du journal de bord électronique serait certainement une solution à la charge de travail.

Merci,

Patrick Vincent

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Directeur général régional, Région du Québec
Pêches et Océans Canada / Gouvernement du Canada
104, rue Dalhousie, Québec, Qc, G1K 7Y7
Patrick.Vincent@dfo-mpo.gc.ca / Tél.: 418-648-4158

Regional Director General, Quebec Region
Fisheries and Oceans Canada / Government of Canada
104 Dalhousie Street, Québec, Qc, G1K 7Y7
Patrick.Vincent@dfo-mpo.gc.ca / Tel.: 418-648-4158

De : Cawthray, Jenness
Envoyé : May-09-17 11:05 AM
À : Rivierre, Antoine; Dunne, Erin; Mallet, Pierre; Gaudet, Mario; Thomas, Tashina; Waters, Christa; Marentette, Julie
Cc : Lester, Brian
Objet : RE: Mackerel Memo
Importance : Haute

Hi All,
We were waiting for comments from RDGs on the memo by this morning. Can you follow up in your Regions to see if there are comments? We would like to move the memo this afternoon.
Thank you!
Jenness

From: Rivierre, Antoine
Sent: May-08-17 3:26 PM
To: Cawthray, Jenness; Dunne, Erin; Mallet, Pierre; Gaudet, Mario; Thomas, Tashina; Waters, Christa; Marentette, Julie
Cc: Lavoie, Pierre; Lester, Brian
Subject: RE: Mackerel Memo

Good for me !

Antoine

De : Cawthray, Jenness
Envoyé : May-08-17 2:20 PM
À : Dunne, Erin; Mallet, Pierre; Gaudet, Mario; Thomas, Tashina; Waters, Christa; Rivierre, Antoine; Marentette, Julie
Cc : Lavoie, Pierre; Lester, Brian
Objet : Mackerel Memo
Importance : Haute

Hi Folks,
Just wanted to let you know that it sounds like we will move forward with a 10,000 commercial TAC. If you have any concerns on this, please let me know ASAP. We are just waiting for final comments from the Regions, Science, and Legal before we finalize the memo tomorrow and move through approvals.
Thanks,

Jenness Cawthray
Senior Fisheries and Aquaculture Management Officer |
Agent principal, Gestion des pêches et de l'aquaculture
Fisheries and Oceans | Pêches et océans
200 rue Kent Street - 13S013 Ottawa, ON, K1A 0E6
Jenness.Cawthray@dfo-mpo.gc.ca
Telephone | Téléphone (613) 998-1524

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Fisheries and Oceans Canada
Correspondence Routing Slip

Fiche d'acheminement de correspondance
Pêches et Océans Canada

UNCLASSIFIED
GCCMS #: 2017-045-00376
EKME #: 3766140V8

To: / Pour: Catherine Blewett

Date:

Object: / Objet: **2017 ATLANTIC MACKEREL MANAGEMENT MEASURES**

From / De: Adam Burns A/DG FRM

Via: Philippe Morel, A/SADM, EFM,
Sylvie Lapointe, A/ADM, EFM Ops

Additional approvals:
Autre(s) approbation(s):
Trevor Swerdfager, Senior Assistant Deputy Minister, Ecosystems and Oceans Science

☐	Material for the Minister Documents pour le Ministre	X	Your Signature Votre signature	☐	Information

Screen: / Filtre:

The Department has assessed this issue in full.

- ☒ It contains no reference to matters covered by the screen relating to J.D. Irving Limited.
- ☐ It contains matters referenced in the screen relating to J.D. Irving Limited, but in our view does not engage the screen.
- ☐ In our view, the screen relating to J.D. Irving Limited should be engaged.

Distribution Serge Doucet, Regional Director General, Gulf Region
Patrick Vincent, Regional Director General, Quebec
Morley Knight, Regional Director General, Maritimes Region
Kevin Anderson, Regional Director General, Newfoundland & Labrador

Drafting Officer/
Rédacteur: J. Cawthray/ B. Lester / R. Jenkins / rb

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Fisheries and Oceans Canada
Deputy Minister

Pêches et Océans Canada
Sous-ministre

s.21(1)(b)

UNCLASSIFIED
2017-045-00376
EKME #: 3766140v9

MEMORANDUM FOR THE MINISTER

2017 ATLANTIC MACKEREL MANAGEMENT MEASURES
(FOR DECISION)

SUMMARY OF ADVICE TO MINISTER

This memo seeks your approval of the Total Allowable Catch (TAC) for the mackerel fishery in Atlantic Canada and Quebec, and outlines steps for improved reporting and a rebuilding plan for the fishery. A map of Atlantic mackerel harvesting areas (Subareas 3-4) is at TAB 1.

On March 30, 2017, the Atlantic Mackerel Advisory Committee (AMAC) met to discuss the TAC levels and other key management issues for this fishery. A supplementary meeting for Indigenous groups was also held on March 28, 2017. At these meetings Science presented results of a recently completed peer-reviewed stock assessment for mackerel in Canadian waters (TAB 2). Results from a new stock assessment model indicate that while there is some growth in the biomass, the stock continues to be in the critical zone (approximately 50% of the Limit Reference Point). Stock projections at various harvests are at the end of Tab 2.

Commercial harvesters and the provinces put forth recommendations to increase the total catch to 20,000t or 36,000t, which also includes undeclared catch, estimated at 6,000t per year under current monitoring. Indigenous organizations suggested a closure of the fishery and non-government organizations requested implementing a much lower catch of 8,000t (including undeclared catch) while the stock remains in the critical zone.

Unreported landings in some bait and commercial fisheries and unknown harvests from the recreational fishery continue to impact the stock assessment. AMAC members agree that monitoring and reporting of catches for this fishery must be improved. The department is actively undertaking measures to improve catch reporting for the commercial and bait fisheries in 2017 and beyond. This will include the introduction of new measures in the Gulf to institute accurate real-time reporting for commercial catches in 2017.

A Mackerel Rebuilding Plan Working Group will be convened with participation from AMAC members that will focus on setting an Upper Stock Reference point as well as harvest control rules to support rebuilding this stock into the healthy zone of the PA Framework.

It is recommended that you set the 2017 commercial TAC at 10,000t for one year. This represents a modest increase from the 8,000t TAC set in 2016 for the commercial fishery, and with an estimated 6,000t for unreported catches (bait, recreational, etc.) it could result in an estimated 16,000t total catch. It is expected that the level of unreported catches will reduce as catch monitoring is improved. The Atlantic Mackerel stock has a high probability of growth [redacted] under this harvest level over the next two years, and it strikes a balance between projected positive growth of the stock and the economic importance of the fishery.

Canada

002979

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BACKGROUND

The Atlantic Mackerel stock is a trans-boundary stock (map at TAB 1) found in Canadian and United States (US) waters (Canadian spawned fish overwinter in US waters). Mackerel is fished in Canadian waters on a competitive basis within allocations of inshore/offshore split of 60%/40% respectively. There is no regional or provincial sharing arrangement.

Total reported commercial landings in Atlantic Canada have decreased significantly in recent years, from a high of 54,621t in 2005 to a record low of 4,145t in 2015. During the same time frame, TAC levels have followed the landings trajectory and resulted in a reduction from 36,000t in 2013, to 10,000t in 2014, and to a low of 8,000t per year over the past two years.

The 2014 stock assessment for mackerel indicated that the biomass of the stock was estimated to be at the lowest ever on record and the stock was well into the critical zone of the Precautionary Approach (PA) Framework. Unknown catches in bait and recreational fisheries and unaccounted commercial harvests have impaired the stock assessment for many years.

In 2016, the commercial TAC was reached and the fishery was closed in-season for the first time ever. Since first established in 1987, the TAC had never limited landings until 2016. Commercial landings averaged just over 5,000t per year in 2014 and 2015. Significant catches by the Newfoundland inshore fleet, with the majority in 3K, in early October 2016, led to a closure of the fishery (NL catches were approximately 4,600t of the overall 8,000t catch). It is important to note that the appearance of mackerel in 3K is not typical as it appears periodically.

For the 2017 stock assessment, science developed a new model which can account for undeclared catches. This new model was informed by an internet survey and literature review of past bait and recreational use. The model was able to provide a more realistic estimate of unreported catch, and produced significantly higher biomass estimates than the previous model. The new model noted that the relative status of the stock is the same, i.e. lowest levels in the time series (20,000t) were in 2012, although an increase in biomass has been seen since 2012, with a current estimate of 48,000t. There are some early signs of good recruitment coming into the fishery, however, this good recruitment still has to be confirmed and the stock remains low within the critical zone.

Results of the assessment were presented to the March 30, 2017 meeting of the Atlantic Mackerel Advisory Committee. While the new assessment model was viewed more favorably by stakeholders than the previous assessment approach, industry was of the view that it severely underestimated the overall biomass. Fishermen have reported a significant number of small fish throughout the Gulf of St. Lawrence in 2016 which could be a sign of good incoming recruitment which won't be confirmed until at least this year.

The latest assessment provided a range of harvest scenarios and associated growth projections, as well as a defined a Limit Reference Point for Atlantic mackerel (TAB 2). It is understood that total catches (undeclared and declared) should not inhibit continued growth with an aim of getting out of the critical zone in a reasonable time frame. Declared catches (addressed by TACs) represent commercial landings and some bait catches, while undeclared catches are some unreported commercial harvests, bait catches as well as recreational harvests. There are no measures to restrict catch and no closed season identified for recreational harvests of mackerel.

Science continues to note concerns with undeclared harvests, which could be significant given the current low biomass. Science has worked with their US counterparts in the most recent assessment and they are working towards a Canada/US joint stock assessment for 2019.

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Given concerns with undeclared harvests, the Department is working on implementing mandatory hails of catches coupled with dockside monitoring (approximately 25%) for the fishery in the southern Gulf in 2017 in order to eliminate the use of purchase slips as a source of catch data. Increased reporting requirements are also being considered for the Maritimes Region as well as the future inclusion of mackerel as a stock in the national electronic logs system.

The Integrated Fisheries Management Plan (IFMP) for mackerel indicates a priority of access to licence holders with vessels less than 65' (the inshore fleet). It also references a 60%/40% split of the TAC between the inshore and offshore (vessels >65' seine) fleets and includes a consideration to allow the inshore fleet to continue to harvest even after they have 60% of the TAC landed if the >65' fleet had not harvested all of their 40%.

There was significant negative reaction following the closure of the mackerel fishery in 2016 as the inshore fleets believe that the stock is healthy and the offshore fleet (>65' large seiners) did not have an opportunity to fish in 2016 as they were just starting when the Department closed the fishery with the TAC having been reached. The offshore fleet is of the view that rhey need to be consulted before there is any consideration to allow the inshore fleet to harvest more than 60% of the TAC. Inshore harvesters indicated that there was a significant amount of mackerel in Newfoundland waters during, and for weeks after the fishery closed.

STRATEGIC CONSIDERATIONS

Harvesters will not react favorably to a commercial TAC far below industry requests based on their view of the health of the stock, particularly in NL where industry recommended a 36,000t total catch. Based on migration, the fish arrives in NL last, typically in late September after other provinces have had several months of harvesting. If fish show up in 3K again this year (noted above as atypical), there may be a requirement to close the fishery late in the fall again this year.

The Department recommends a more conservative TAC of 10,000t given the stock is in the critical zone and in line with the PA Framework, there needs to be a high probability (75-95%), of the stock growing out of the Critical zone within a reasonable timeframe. Based on Science projections, with average incoming recruitment, there would be a 77% probability of the biomass increasing over the next two years, at an overall harvest of 16,000t. This catch level represents a balance between projected positive growth in the stock while recognizing the economic value of the fishery and its importance as a bait source. The limited increase may discourage better reporting and could limit industry interest in developing a rebuilding plan for the stock.

With better reporting in 2017, most specifically in the Southern Gulf, this should result in reducing undeclared harvest in the commercial fishery (an estimated 1,000t+) and the level of declared catch could rise by the same amount. With a 10,000t TAC, fleets may strongly resist increased reporting requirements (including frequency in some regions).

There may be some negative reaction from Indigenous groups and non-government organizations, to any TAC increase where our policy says that removals should be kept at the lowest possible levels.

In 2016, harvesters were critical of the rapid and unexpected closure of the fishery. In order to mitigate this situation in 2017, the department will hold a conference call with AMAC when 50% of established commercial TAC is reached. This call will allow the Department to consult on the

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inshore/offshore split of 60%/40% as well as the IFMP clause with regard to allowing the inshore to continue fishing if the offshore fleet has not caught its allocation. This would ensure a formal consultation before contemplating any measure that would modify the 40% share of the TAC to which the greater than 65' fleet is entitled to. Following the 60%/40% split would limit inshore <65' fleets to catches to 6,000t, significantly less than the 7,800t they caught in 2016.

In September 2014, Atlantic mackerel was put on a priority list for future review by the Committee on the Status of Endangered Wildlife in Canada. The 2016 audit of the Commissioner of the Environment and Sustainable Development identified Mackerel as a stock in the critical zone requiring a rebuilding plan as part of IFMP. The department has received widespread interest from industry stakeholders to participate in a rebuilding plan working group for the mackerel fishery which will convene late spring/early summer 2017. The evergreen IFMP for Atlantic mackerel, in effect since 2007, will be updated in advance of the 2019 AMAC meeting.

The Department is currently analysing options for the inclusion of mackerel as a potential stock to be included under Marine Recreational Fishing Licence for Eastern Canada to establish recreational harvest limits and improve reporting of this fishery.

While not discussed at the most recent AMAC, it would be prudent to consider a freeze on the issuance of new mackerel licences until this can be considered, in light of a rebuilding plan.

SCIENCE ADVICE

A stock assessment for Atlantic Mackerel was conducted March 8-9, 2017. The current spawning stock biomass was estimated at 48,000t for 2017, lower than the Limit Reference Point of 103,000t, placing mackerel in the critical zone of the PA framework. The model estimated that unreported/undeclared catches (recreational, bait, discard mortality and a portion of the American landings) averaged approximately 6,000t in recent years, in addition to commercial landings. This means that with a commercial TAC of 8,000t, total landings, including the undeclared estimate, were approximately 14,000t in 2016. According to the assessment, mackerel spawning stock biomass has increased slightly since reaching a historical low in 2012. Science has recommended that, because the stock remains in the critical zone, total catches (declared and unreported) should be low enough to facilitate stock recovery. Science has also noted that improved data collection on unreported catches is a priority.

Modelled stock projections over a two-year assessment period (2017-2019) indicate that total landings of 16,000t (10,000t TAC and up to 6,000t undeclared catches) would result in a 77% probability that the mackerel spawning stock biomass would continue to increase in abundance over current levels over the next two years.

INTERDEPARTMENTAL CONSULTATIONS

No interdepartmental consultations were required.

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INDIGENOUS CONSULTATIONS

Indigenous groups are represented as members on the AMAC. In addition, a supplementary meeting was held to permit additional consultation with indigenous groups. Indigenous groups suggested a closure of the fishery or a low TAC while the stock is in the critical zone.

EXTERNAL CONSULTATIONS

The Department consulted with representatives of the mackerel industry, including harvesters and processors, industry associations, the Ecology Action Center, the Atlantic Provinces and Quebec.

At AMAC, commercial harvesters put forth recommendations to increase total catch to 20,000t or 36,000t, inclusive of undeclared catch. Based on the stock assessment, harvests at these levels would not promote growth of the stock in line with DFO's PA Framework. The Ecology Action Center and the World Wildlife Fund have requested a significant reduction in total catch (declared and undeclared) of 8,000t while the stock remains in the critical zone.

ADVICE AND RECOMMENDATIONS TO MINISTER

It is recommended that you approve a commercial TAC of 10,000t for the Atlantic Mackerel fishery for 2017 and implement a temporary freeze on the issuance of any new mackerel licences.

The Department will establish the process to review the fishery when commercial landings reach 50% (5,000t) of this established commercial TAC. Additionally, a Mackerel Rebuilding Plan Working Group will be convened that will focus on setting an Upper Stock Reference point as well as harvest control rules to support rebuilding this stock into the healthy zone of the PA Framework. A meeting of AMAC will occur, via conference call, in the spring of 2018 to solicit industry advice for 2018.

Media lines will be prepared in response to the release of TAC and other management measures.

MAY 1 2 2017

Catherine Blewett
Deputy Minister

Kevin Stringer
Associate Deputy Minister

☒ I concur with the recommendations

☐ I do not concur with the recommendations

JUL 2 7 2017

Dominic LeBlanc
Minister

Minister's Comments:

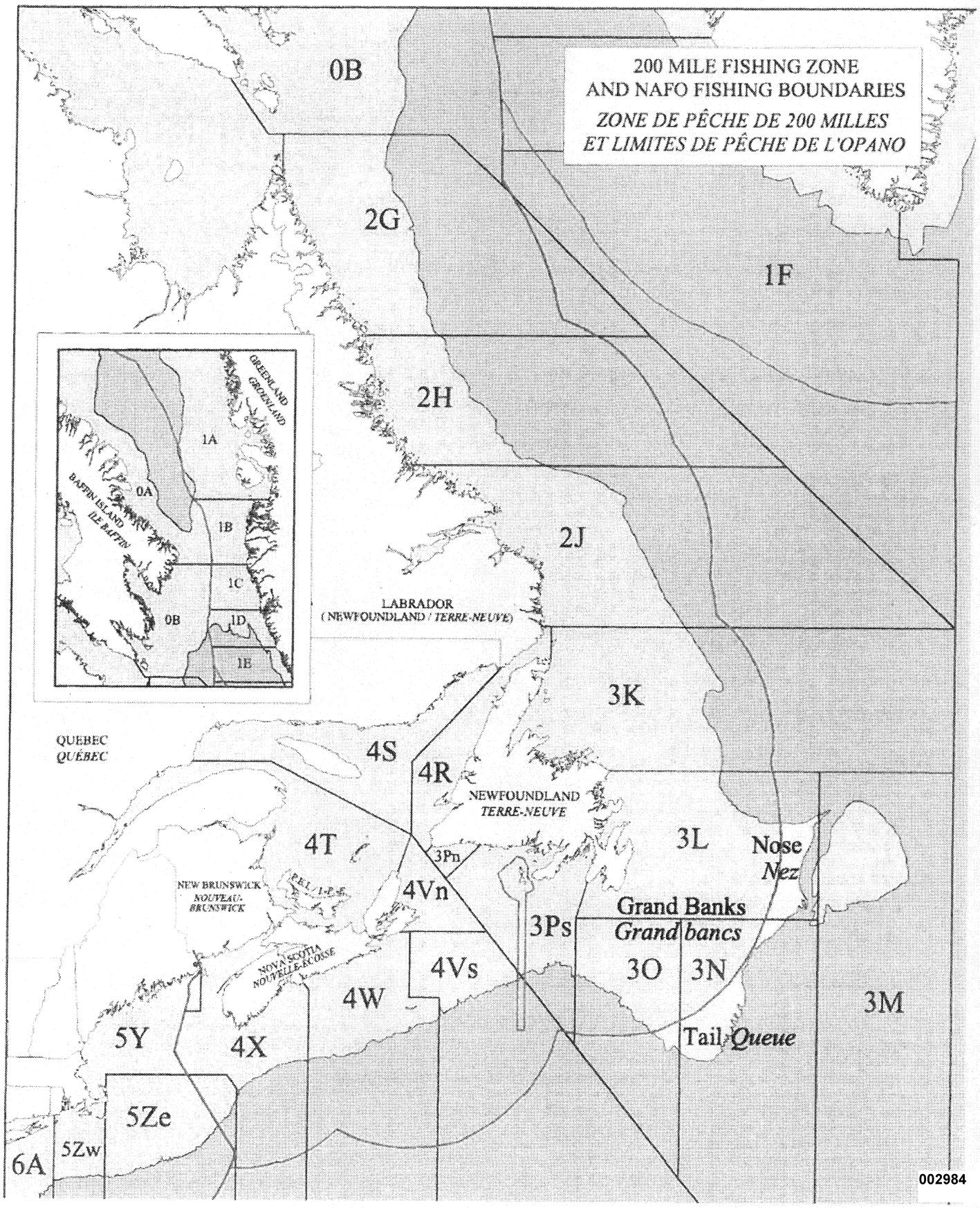
Attachments:
TAB 1 – Map of Mackerel Fishing Areas
TAB 2 – Science Assessment of Atlantic Mackerel
TAB 3 - Inshore/Offshore Split of the Total Allowable Catch

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TAB 1

NAFO

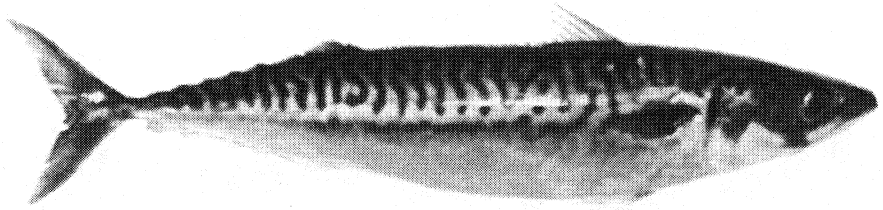


002984

Available at https://www.invernesssouth.com/uploads/1/8/2/9/18294681/mackerel_science_amac.pdf

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Assessment of Atlantic mackerel in subareas 3-4



Thomas Doniol-Valcroze, Benoît Légaré,
Linda Girard, Mélanie Boudreau,
Elisabeth Van Beveren & Martin Castonguay

Maurice-Lamontagne Institute, Mont-Joli, Quebec

002985

Pages 2986 to / à 3013

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est public-refusé en vertu de l'article

68(a)

of the Access to Information Act

de la Loi sur l'accès à l'information

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Inshore/Offshore Split of the Total Allowable Catch

Background:

The Atlantic Mackerel Integrated Fisheries Management Plan (IFMP) provides that the Canadian Atlantic mackerel fishery is a competitive fishery. It further provides that the present sharing arrangement of the TAC is 60% for the less than 65' (19.8 m) inshore fleets and 40% for fleets 65' (19.8 m) or greater (the offshore) seine fleet . The fishery is conducted on a competitive basis within these allocations.

In discussions with the Atlantic Mackerel Advisory Committee (AMAC) in 2007, in the development of the current IFMP, inshore representatives indicated that they would like to reduce or eliminate the TAC share for the exploratory (>65' fleet) fishing in light of a proposed reduced TAC. At that time the TAC was proposed to be reduced from 75,000t to 50,000t although the TAC was not reduced until 2010 with no change in sharing. Also during the discussions in 2007, the majority view among AMAC members was that the quota sharing of 40% for the "exploratory mobile gear fishery" versus 60% for "traditional inshore fisheries" should be flexible, i.e. there should be allowance for the traditional inshore fisheries to exceed 60% of the overall catch.

This was addressed in the IFMP in that it note; "In the context of increased landings, particularly by the inshore fleet (vessels less than 65'), and a management objective which establishes priority access for the inshore fleet, a flexible approach to managing the TAC has been accepted by the AMAC. Under this approach, if the less than 65' fleets reach their allocation (i.e. 60% of TAC) and uncaught quota remains within the greater than 65' fleet allocation, consideration may be given to allow the less than 65' fleets to continue fishing within the overall TAC."

[redacted]. When the fishery was closed in mid-October with the TAC having been reached, the inshore harvest accounted for 98% of the catch.

Current Status:

Despite concerns expressed from inshore harvesters on the inshore/offshore 60%/40% sharing arrangement in 2007 when a TAC reduction from 75,000 to 50,000t was being contemplated, no fleet expressed any concern with the current split at the most recent AMAC meeting even at the recent low level of TAC.

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s.16(2)

Krohn, Martha

From: Krohn, Martha
Sent: May-12-17 11:31 AM
To: de Lafontaine, Yves; Landry, Jean
Cc: Vincent, Patrick; Doniol-Valcroze, Thomas; Castonguay, Martin; Gilbert, Michel
Subject: RE: Mino briefing on mackerel

Categories: Red Category

Merci à tous! Julie et moi nous regarderons la présentation avec plaisir, et on reviendrons avec des questions (si nous avons des questions.)
Merci et bonne fin de semaine et bon retour à Martin et Thomas
Martha

From: de Lafontaine, Yves
Sent: May-12-17 11:11 AM
To: Landry, Jean; Krohn, Martha
Cc: Vincent, Patrick; Doniol-Valcroze, Thomas; Castonguay, Martin; Gilbert, Michel
Subject: TR: Mino briefing on mackerel

Bonjour Martha et Jean,

Voici la dernière version du deck de breffage pour le maquereau ajusté en fonction des scénarios de TAC à 10,000 t. En cas de questions, n'hésitez pas à appeler.
Martin et Thomas sont en route aujourd'hui de retour des USA et seront disponibles lundi matin pour toute discussion du dossier.

Yves de Lafontaine

Directeur, Institut Maurice Lamontagne
Directeur, Direction régionale des Sciences
Pêches et Océans Canada / Gouvernement du Canada
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Director, Maurice Lamontagne Institute
Director, Sciences regional directorate
Fisheries and Oceans Canada / Government of Canada
Yves.delafontaine@dfo-mpo.gc.ca Tel : 418-775-0555 / Cel. : [redacted]



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De : Gilbert, Michel
Envoyé : 12 mai 2017 10:59
À : Doniol-Valcroze, Thomas <Thomas.Doniol-Valcroze@dfo-mpo.gc.ca>; Castonguay, Martin <Martin.Castonguay@dfo-mpo.gc.ca>
Cc : Racine, Sylvi <Sylvi.Racine@dfo-mpo.gc.ca>; de Lafontaine, Yves <Yves.deLafontaine@dfo-mpo.gc.ca>; Landry, Jean <Jean.Landry@dfo-mpo.gc.ca>
Objet : RE: Mino briefing on mackerel

Merci Thomas !

Nous avons quelques petites corrections mineurs (éditoriales) et Yves va la transférer à Jean Landry sous peu. Prenez note que mon message ce matin ne contenait pas la bonne présentation et j'ai rectifié le tir avec Yves. Toutes mes excuses !

Prenez note enfin qu'il y aura un appel avec le ministre sur cette question lundi matin à 9h30 et il est crucial que toi et/ou Martin soyez présents au bureau de Yves à ce moment pour répondre à des questions techniques s'il y a lieu.

Merci à l'avance et bon retour !

Michel G.

Michel Gilbert, M. Sc.
Directeur / Director
Direction des sciences pélagiques et écosystémiques / Pelagic and Ecosystem Science Branch
Direction régionale des Sciences / Regional Science Directorate
Pêches et Océans Canada / Fisheries and Oceans Canada
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http://www.qc.dfo-mpo.gc.ca/iml

Ma langue, une question de respect
My language, a matter of respect

De : Doniol-Valcroze, Thomas
Envoyé : 11 mai 2017 22:28
À : de Lafontaine, Yves; Gilbert, Michel; Castonguay, Martin
Cc : Racine, Sylvi
Objet : RE: Mino briefing on mackerel

Bonsoir Yves,

J'ai intégré tes commentaires et ceux de Michel dans cette version. J'espère que c'est mieux comme ça.

Il est peut-être temps de demander leur avis à l'équipe de Jean?

Thomas

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s.16(2)

De : de Lafontaine, Yves
Envoyé : 11 mai 2017 18:00
À : Doniol-Valcroze, Thomas; Gilbert, Michel; Castonguay, Martin
Cc : Racine, Sylvi
Objet : Re: Mino briefing on mackerel

Bonjour à tous,

Ou en sommes-nous avec ce breffage? Peut-on avoir une nouvelle version car nous devons finaliser pour demain au bureau de Ottawa. Svp me transmettre votre nouvelle version.

Envoyé de mon smartphone BlackBerry 10 sur le réseau Bell.

De: de Lafontaine, Yves
Envoyé: lundi 8 mai 2017 22:33
À: Doniol-Valcroze, Thomas; Gilbert, Michel; Castonguay, Martin
Cc: Racine, Sylvi
Objet: RE: Mino briefing on mackerel

Mes commentaires.

Yves de Lafontaine

Directeur, Institut Maurice Lamontagne
Directeur, Direction régionale des Sciences
Pêches et Océans Canada / Gouvernement du Canada
Yves.delafontaine@dfo-mpo.gc.ca Tél. : 418-775-0555 / tél. cell. : [redacted]

Director, Maurice Lamontagne Institute
Director, Sciences regional directorate
Fisheries and Oceans Canada / Government of Canada
Yves.delafontaine@dfo-mpo.gc.ca Tel : 418-775-0555 / Cel. : [redacted]

J'ai 30 ans / I'm 30 years old
INSTITUT MAURICE-LAMONTAGNE
MAURICE LAMONTAGNE INSTITUTE

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De : Doniol-Valcroze, Thomas
Envoyé : 8 mai 2017 21:40
À : Gilbert, Michel <Michel.Gilbert@dfo-mpo.gc.ca>
Cc : Racine, Sylvi <Sylvi.Racine@dfo-mpo.gc.ca>; Castonguay, Martin <Martin.Castonguay@dfo-mpo.gc.ca>; de Lafontaine, Yves <Yves.deLafontaine@dfo-mpo.gc.ca>
Objet : RE: Mino briefing on mackerel

Michel,

Voici une première ébauche de breffage technique sur le maquereau, basée sur des diapos de Julie Marentette et sur notre présentation à AMAC. Il faudra les adapter en fonction de la décision du ministre.

Dites-nous ce que vous en pensez.

Thomas

De : Gilbert, Michel
Envoyé : 8 mai 2017 08:54
À : Castonguay, Martin
Cc : de Lafontaine, Yves; Racine, Sylvi; Doniol-Valcroze, Thomas
Objet : RE: Mino briefing on mackerel

Martin,

STP me contacter aujourd'hui à ce sujet. Étant donné votre voyage cette semaine à Woodshole, il faut se coordonner avec Sylvi le plus rapidement possible pour préparer le matériel requis.

Merci à l'avance !

Michel G.

Michel Gilbert, M. Sc.
Directeur / Director
Direction des sciences pélagiques et écosystémiques / Pelagic and Ecosystem Science Branch
Direction régionale des Sciences / Regional Science Directorate
Pêches et Océans Canada / Fisheries and Oceans Canada
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Mont-Joli, Québec, Canada G5H 3Z4
Tél. / Tel. : (418) 775-0604
Téléc. / Fax : (418) 775-0718
Courriel / E-mail : michel.gilbert@dfo-mpo.gc.ca
http://www.qc.dfo-mpo.gc.ca/iml

Ma langue, une question de respect
My language, a matter of respect

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s.16(2)

De : de Lafontaine, Yves
Envoyé : 5 mai 2017 18:05
À : Gilbert, Michel; Racine, Sylvi; Castonguay, Martin
Objet : TR: Mino briefing on mackerel

Bonjour

Le dossier « maquereau » requiert un breffage technique pour les média afin de répondre aux questions éventuels suite à la sortie de l'avis ministériel du TAC. Jean Landry va envoyer un exemple de ce qui a été fait pour Terre-Neuve récemment (crevette) et qu'on pourra utiliser. L'équipe de Jean peut aussi nous donner un coup de pouce et doit absolument voir le produit final avant la sortie. Donc on travaille de concert avec eux pour préparer et finaliser le matériel.
Le ministre ferait l'annonce le 15 ou 16 mai prochain, ce qui laisse un peu de temps, mais selon la décision finale de la gestion des pêches, il faudra ajuster le discours et les Q&R.

SVP coordonner la production entre vous trois. Je vous transmets info dès réception.

Yves de Lafontaine

Directeur, Institut Maurice Lamontagne
Directeur, Direction régionale des Sciences
Pêches et Océans Canada / Gouvernement du Canada
Yves.delafontaine@dfo-mpo.gc.ca Tél. : 418-775-0555 / tél. cell. :

Director, Maurice Lamontagne Institute
Director, Sciences regional directorate
Fisheries and Oceans Canada / Government of Canada
Yves.delafontaine@dfo-mpo.gc.ca Tel : 418-775-0555 / Cel. :



De : Landry, Jean
Envoyé : 4 mai 2017 17:52
À : Vézina, Alain <Alain.Vezina@dfo-mpo.gc.ca>; de Lafontaine, Yves <Yves.deLafontaine@dfo-mpo.gc.ca>
Cc : Chin, Melanie <Melanie.Chin@dfo-mpo.gc.ca>; White, Andrea <Andrea.White@dfo-mpo.gc.ca>; Northcott, Jennifer <Jennifer.Northcott@dfo-mpo.gc.ca>; Krohn, Martha <Martha.Krohn@dfo-mpo.gc.ca>
Objet : Fw: Mino briefing on mackerel

Alain: on va aussi devoir produire un court texte sur les progres realises avec l,avaluation sur le maquereau. J.anticipe un breffage avec le ministre sur le maqureau pour le 15 ou 16 mai (TBC).

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Yves: un breffage technique pour les media a été demande étant donné la sensibilite liee a cet enjeu. Details a venir mais on devrait anticiper un breffage en français et un en anglais.

Jean

Sent from my BlackBerry 10 smartphone on the Rogers network.

From: Burns, Adam <Adam.Burns@dfo-mpo.gc.ca>
Sent: Thursday, May 4, 2017 5:11 PM
To: French, Christopher
Cc: Lapointe, Sylvie; Landry, Jean
Subject: Mino briefing on mackerel

Hi,

We had a mino briefing on mackerel science today where Jean Landry, Martha Krohn and I reviewed the improvements which have occurred in mackerel science over the last year as well as management improvements related to monitoring and reporting which are being implemented for the coming season.

It went well, the only outcome being a request from mino (Sheldon) that the dept consider a joint technical briefing on science and management when the decision comes out -- perhaps one in English and one in French.

AB
Sent from my BlackBerry 10 smartphone on the Rogers network.

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ADM Briefing

Date May 12/17

Mackerel → Cod

↑ credibility but same pattern

- differences between 2 models
  - ↳ Thomas' point on magnitude diff between model
- EFM - 3K + movement / 2015 year data
  - ↳ progress of fishery over course of year
- PA framework + risk definition
  - conflicts in words, 50% in TAC
- Δ to licencing / merits unproven, mostly target
  - ↳ no more purchase slips
  - ↳ all dependson 6,000 estimate

under-age commercial sales

V → email Terry the Mackerel Memo

Page

003021

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Marentette, Julie

From: Doniol-Valcroze, Thomas
Sent: May-12-17 12:01 PM
To: Marentette, Julie; Castonguay, Martin
Cc: Krohn, Martha
Subject: RE: Mackerel SAR?
Attachments: AS_maquereau2017-fra.docx

Here it is, Julie. But we only have the French version at this point.

Cheers,
Thomas

De : Marentette, Julie
Envoyé : 12 mai 2017 10:09
À : Doniol-Valcroze, Thomas; Castonguay, Martin
Cc : Krohn, Martha
Objet : Mackerel SAR?

Hi – I forgot to ask on the email I just sent out – could we see a copy of the draft SAR? Thanks!

Best regards,

Julie Marentette, Ph.D.

Science Advisor, Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Julie.Marentette@dfo-mpo.gc.ca /Tel: 613-943-2098

Conseillère scientifique, Sciences des populations halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Julie.Marentette@dfo-mpo.gc.ca /Tél: 613-943-2098

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pages 2640 to / à 2653

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The signed version of the memo is found in TIF A0281964

Marentette, Julie

From: Marentette, Julie
Sent: May-12-17 10:09 AM
To: Krohn, Martha; Castonguay, Martin
Cc: Doniol-Valcroze, Thomas
Subject: RE: Minister's decicion
Attachments: MECTS-#3766140-v10-2017_ATLANTIC_MACKEREL_MANAGEMENT_MEASURES.DOCX

Hi Martin and Thomas,

Here's a copy of the current memo attached for your records – reviewed and approved by ESD late yesterday.

Best regards,

Julie Marentette, Ph.D.

Science Advisor, Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Julie.Marentette@dfo-mpo.gc.ca /Tel: 613-943-2098

Conseillère scientifique, Sciences des populations halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Julie.Marentette@dfo-mpo.gc.ca /Tél: 613-943-2098

From: Krohn, Martha
Sent: May-11-17 11:32 AM
To: Marentette, Julie; Castonguay, Martin
Cc: Doniol-Valcroze, Thomas
Subject: RE: Minister's decicion

The memo is here and back to 10!

From: Marentette, Julie
Sent: May-11-17 11:31 AM
To: Castonguay, Martin
Cc: Doniol-Valcroze, Thomas; Krohn, Martha
Subject: RE: Minister's decicion

Hi Martin,

Yes absolutely – we haven't heard anything from higher up in NCR Science, neither has NCR-RM... we're not sure where the TAC question from yesterday came from but we will certainly keep you posted.

Best regards,

Julie Marentette, Ph.D.

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Conseillère scientifique, Sciences des populations halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Julie.Marentette@dfo-mpo.gc.ca /Tél: 613-943-2098

From: Castonguay, Martin
Sent: May-11-17 11:29 AM
To: Marentette, Julie
Cc: Doniol-Valcroze, Thomas; Krohn, Martha
Subject: Minister's decicion

Julie,

I imagine you will keep us in the loop regarding the minister's TAC decision on mackerel.

Merci,

Martin

Martin Castonguay, Ph.D.
Chercheur et Chef de section Sciences pélagiques /
Research scientist Head of Pelagic science section
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Pêches et Océans Canada / Fisheries and Oceans Canada
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Canada G5H 3Z4

Tel 1 418 775 0634
Fax 1 418 775 0740
martin.castonguay@dfo-mpo.gc.ca



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Butcher, Ashley

From: Butcher, Ashley
Sent: Friday, May 12, 2017 11:37 AM
To: Trudeau, Miriam; Malko, Carol
Subject: Fw: 2017-045-00376 // 2017 atlantic Mackerel management measures
Attachments: U 2017-045-00376 Associate DM Approved.pdf

From: Ryan, Sandra-Lee <Sandra-Lee.Ryan@dfo-mpo.gc.ca>
Sent: Friday, May 12, 2017 11:27 AM
To: Butcher, Ashley
Subject: 2017-045-00376 // 2017 atlantic Mackerel management measures

Hi Ashley,

As requested please see attached a scan of this docket.

Sandra ☺

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Beamish, Kayla

From: Lester, Brian
Sent: May 12, 2017 9:27 AM
To: Beamish, Kayla
Subject: RE: NS trip - mackerel lines?
Attachments: ML_MackerelMeeting update.docx

I did a quick update of the previous holding lines which would work given we will likely not have announced by Monday.

From: Beamish, Kayla
Sent: 2017–May-11 12:52 PM
To: Lester, Brian
Subject: NS trip - mackerel lines?

Hi Brian,
Min going to be in NS on Monday – what are the chances he'll be asked about mackerel? We have those holding lines that were done after the advisory meeting (draft and would need to have approved at least to Sylvie to include in the spokes binder).
I've attached them – do you think they're necessary? Too soon to include the tac decision ones so would just be these holding lines..

Let me know!
thanks

Kayla Beamish
Communications Advisor / Conseillère principale en communications
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MEDIA LINES

Atlantic Mackerel Management Decision 2017

Issue

The Atlantic Mackerel Advisory Committee meeting took place on March 30 in Halifax, Nova Scotia. DFO chaired the meeting and upwards of 70 stakeholders, including Indigenous groups, harvesters, processors, environmental non-government organizations, and the four Atlantic provinces and Quebec. Recommendations on harvest level from the harvesting and processing sectors far exceed any harvest level that would be supported by the 2017 stock assessment. The Department may receive media calls on discussions that took place at the meeting and ~~when the decisions moving forward, including the~~ 2017 TAC decision for the Atlantic Mackerel fishery ~~which is expected to be announced in early May~~will be announced.

Media lines

- Our government ensures that fisheries management decisions for all stocks, including Atlantic mackerel include consideration of the best available science as well as input from Indigenous groups, harvesters, processors, environmental non-government organizations and the provinces.

- The Department undertook a new stock assessment for Atlantic mackerel this spring. This updated assessment was discussed with members of the Atlantic Mackerel Advisory Committee on March 30 and input from stakeholders will assist in future decisions for this fishery.

- While the science assessment has shown some preliminary signs of rebuilding, the stock assessment indicates that the stock remains in the critical zone under DFO's Precautionary Approach framework.

- As noted in the stock assessment and as was discussed at the most recent meeting of the Atlantic Mackerel Advisory Committee, better and more complete catch data reporting is needed in this fishery so new catch monitoring measures will be put in place for some fleets beginning this year.

- Fisheries and Oceans Canada is committed to balancing economic opportunity and financial stability of the Atlantic mackerel fishery while promoting the sustainability of this resource.

If pressed:

- Management decisions for this fishery will consider long-term conservation and sustainability of the stock and take into account the best available science, the department's management plan, and views expressed by stakeholders at the recent consultation with industry.

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DRAFT

- While industry supported and agreed with the general trends of stock rebuilding indicated in the stock assessment, their views are that the overall biomass is significantly larger than ~~the~~ **the level indicated in the 2017 stock assessment.** ~~science would indicate based on what they experienced in the 2016 fishery~~.

If pressed on judicial review:

- The Department will not comment on this matter, as it currently before the Court.

Program Contact: Brian Lester, Adam Burns

Communications Contact: Kayla Beamish

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Beamish, Kayla

From: Lapointe, Sylvie
Sent: May 12, 2017 11:39 AM
To: Beamish, Kayla
Cc: Burns, Adam; Lester, Brian
Subject: RE: Approval: holding lines Mackerel (Min trip to NS)

Approved.

Sylvie

From: Beamish, Kayla
Sent: Friday, May 12, 2017 11:30 AM
To: Lapointe, Sylvie <Sylvie.Lapointe@dfo-mpo.gc.ca>
Cc: Burns, Adam <Adam.Burns@dfo-mpo.gc.ca>; Lester, Brian <Brian.Lester@dfo-mpo.gc.ca>
Subject: Approval: holding lines Mackerel (Min trip to NS)

Hi Sylvie,

We're hoping to include some general holding lines on mackerel in the Minister's spokesbinder – trip to NS next Monday. Spokesbook due today, sorry for the short notice.
Are you ok with the holding lines below? Reviewed by/input from Brian Lester, approved by Adam Burns.

Merci!

Media lines

- Our government ensures that fisheries management decisions for all stocks, including Atlantic mackerel include consideration of the best available science as well as input from Indigenous groups, harvesters, processors, environmental non-government organizations and the provinces.

- The Department undertook a new stock assessment for Atlantic mackerel this spring. This updated assessment was discussed with members of the Atlantic Mackerel Advisory Committee on March 30 and input from stakeholders will assist in future decisions for this fishery.

- While the science assessment has shown some preliminary signs of rebuilding, the stock assessment indicates that the stock remains in the critical zone under DFO's Precautionary Approach framework.

- As noted in the stock assessment and as was discussed at the most recent meeting of the Atlantic Mackerel Advisory Committee, better and more complete catch data reporting is needed in this fishery so new catch monitoring measures will be put in place for some fleets beginning this year.

- Fisheries and Oceans Canada is committed to balancing economic opportunity and financial stability of the Atlantic mackerel fishery while promoting the sustainability of this resource.

If pressed:

- Management decisions for this fishery will consider long-term conservation and sustainability of the stock and take into account the best available science, the department's management plan, and views expressed by stakeholders at the recent consultation with industry.

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- While industry supported and agreed with the general trends of stock rebuilding indicated in the stock assessment, their views are that the overall biomass is significantly larger than the level indicated in the 2017 stock assessment.

Kayla Beamish
Communications Advisor / Conseillère principale en communications
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Thomas, Tashina

From: Mallet, Pierre
Sent: May-12-17 4:09 PM
To: Thomas, Tashina
Subject: Fw: 2017 Mackerel - commercial fishery

Oui c'est bien ca;)

Sent from my BlackBerry 10 smartphone on the Rogers network.

From: Thomas, Tashina <Tashina.Thomas@dfo-mpo.gc.ca>
Sent: Friday, May 12, 2017 4:07 PM
To: Lapierre, Daniel
Cc: Gaudet, Mario; Mallet, Pierre
Subject: RE: 2017 Mackerel - commercial fishery

Yes info from non-monitored catch estimates hailed-in are to be entered in GFIS!

Tashina

From: Lapierre, Daniel
Sent: May-12-17 3:58 PM
To: Thomas, Tashina
Subject: FW: 2017 Mackerel - commercial fishery

Tashina, please read the following, after reading the COL and the Notice to Fishers I assume that yes, DMC would be required to record the estimated catch provided when fishers Hail In, I also looked at the DMP annual meeting minutes but could not find anything on this.

Please advise

Daniel

From: Ricky Doyle [mailto:rickydoyle@seatracker.ca]
Sent: 2017–May-12 3:19 PM
To: Lapierre, Daniel
Subject: Re: 2017 Mackerel - commercial fishery

Do we just collect the usual information for hails? Are we to enter estimated from non monitored hails in GFIS??

On May 12, 2017 3:16 PM, "Lapierre, Daniel" <Daniel.Lapierre@dfo-mpo.gc.ca> wrote:
A French message will follow

Hi everyone,

This a reminder that for the 2017 mackerel commercial fisheries, dockside monitoring companies must use the «**Species» DMP weigh out summary form** to record the weighing information, and ensure that the name of the species is specified in the appropriate field.

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Please contact me should you have any questions.

Best

Daniel Lapierre

Dockside Monitoring and At Sea Observer Programs Coordinator
Fisheries and Oceans – Gulf Region/Government of Canada
daniel.lapierre@dfo-mpo.gc.ca / Tel : 506-851-6214 / Cell: 506-962-7286 / Fax : 506-851-2504

Coordonnateur des Programmes de vérification à quai et d'observateur en mer
Pêches et Océans Canada – Région du Golfe/Gouvernement du Canada
daniel.lapierre@dfo-mpo.gc.ca / Tél : 506-851-6214 / Mobile: 506-962-7286 / Télécopieur : 506-851-2504

****

Bonjour à tous,

Ceci est un rappel que, pour la saison 2017 de pêche commerciale au maquereau, les compagnies de vérification à quai doivent utiliser **le formulaire sommaire de la pesée du PVQ pour «Espèces»** afin de procéder à la collecte des informations de pesée, et s'assurer de spécifier le nom de l'espèce dans le champ approprié.

Prière de communiquer avec moi pour toute question.

Salutations

Daniel Lapierre

Dockside Monitoring and At Sea Observer Programs Coordinator
Fisheries and Oceans – Gulf Region/Government of Canada
daniel.lapierre@dfo-mpo.gc.ca / Tel : 506-851-6214 / Cell: 506-962-7286 / Fax : 506-851-2504

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Bruxer, Shelby

From: Amelin, Vasili
Sent: May-12-17 3:25 PM
To: Burns, Adam
Cc: Jenkins, Randy; Lester, Brian
Subject: Mackerel memo
Attachments: MECTS-#3766140-v10-2017_ATLANTIC_MACKEREL_MANAGEMENT_MEASURES.DOCX; mackerel_science_AMAC.PDF

As requested

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page 2978

Pages 3091 to / à 3120

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pages 2956 to / à 2984

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s.19(1)

Krohn, Martha

From: Marentette, Julie
Sent: May-15-17 1:19 PM
To: Krohn, Martha
Subject: RE: Mino briefing on mackerel

Categories: Red Category

Hi Martha,

[redacted] Two additional comments to add:

- Slide 3: typo, additional should have one n
- Slide 5: Is it worth mentioning that some undeclared mackerel may also be caught by the American fishery? This is mentioned on slide 3 so maybe don't need to point it out twice.
- Slide 11: Any concerns with the sentence "The New model confirms that mackerel spawning biomass has declined due to high exploitation rates"?

Agreed about the SSB form in slide 11 and in the utility of having the decision table as an Annex (although if this is being presented to the public as a slideshow – hard to have an annex for this?). Interestingly the SAR does not have the same graph in it, in the SAR it only goes up to 2013. Maybe the Res Doc that comes out of it will have the graph.

Slide 12: the official English translation used "facilitate" recovery.

Slide

Best regards,

Julie Marentette, Ph.D.

Science Advisor, Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Julie.Marentette@dfo-mpo.gc.ca /Tel: 613-943-2098

Conseillère scientifique, Sciences des populations halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Julie.Marentette@dfo-mpo.gc.ca /Tél: 613-943-2098

From: Krohn, Martha
Sent: May-15-17 1:08 PM
To: Marentette, Julie
Subject: RE: Mino briefing on mackerel

Hi Julie,
The presentation look good to me, I would only have a couple small comments:
The y axis for the SSB time series could be in '000 tons instead of exponential form (the SAR has the same table in that format)
The slide says: "total catches should be low enough to maximize recovery?' is it more like "promote" recovery ?
Maximize recovery would be no catches, presumably no directed fishing? It may be a translation issue because the French says "favoriser"

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s.16(2)

Should be consistent with the advice.

It would be good to have the decision table handy for questions, in an annex maybe?

Thanks,

Martha

From: de Lafontaine, Yves
Sent: May-12-17 11:11 AM
To: Landry, Jean; Krohn, Martha
Cc: Vincent, Patrick; Doniol-Valcroze, Thomas; Castonguay, Martin; Gilbert, Michel
Subject: TR: Mino briefing on mackerel

Bonjour Martha et Jean,

Voici la dernière version du deck de breffage pour le maquereau ajusté en fonction des scénarios de TAC à 10,000 t. En cas de questions, n'hésitez pas à appeler.
Martin et Thomas sont en route aujourd'hui de retour des USA et seront disponibles lundi matin pour toute discussion du dossier.

Yves de Lafontaine

Directeur, Institut Maurice Lamontagne
Directeur, Direction régionale des Sciences
Pêches et Océans Canada / Gouvernement du Canada
Yves.delafontaine@dfo-mpo.gc.ca Tél. : 418-775-0555 / tél. cell. :

Director, Maurice Lamontagne Institute
Director, Sciences regional directorate
Fisheries and Oceans Canada / Government of Canada
Yves.delafontaine@dfo-mpo.gc.ca Tel : 418-775-0555 / Cel. :

J'ai 30 ans / I'm 30 years old
INSTITUT MAURICE-LAMONTAGNE
MAURICE LAMONTAGNE INSTITUTE

De : Gilbert, Michel
Envoyé : 12 mai 2017 10:59
À : Doniol-Valcroze, Thomas <Thomas.Doniol-Valcroze@dfo-mpo.gc.ca>; Castonguay, Martin <Martin.Castonguay@dfo-mpo.gc.ca>
Cc : Racine, Sylvi <Sylvi.Racine@dfo-mpo.gc.ca>; de Lafontaine, Yves <Yves.deLafontaine@dfo-mpo.gc.ca>; Landry, Jean <Jean.Landry@dfo-mpo.gc.ca>
Objet : RE: Mino briefing on mackerel

Merci Thomas !

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Nous avons quelques petites corrections mineurs (éditoriales) et Yves va la transférer à Jean Landry sous peu. Prenez note que mon message ce matin ne contenait pas la bonne présentation et j'ai rectifié le tir avec Yves. Toutes mes excuses !

Prenez note enfin qu'il y aura un appel avec le ministre sur cette question lundi matin à 9h30 et il est crucial que toi et/ou Martin soyez présents au bureau de Yves à ce moment pour répondre à des questions techniques s'il y a lieu.

Merci à l'avance et bon retour !

Michel G.

Michel Gilbert, M. Sc.
Directeur / Director
Direction des sciences pélagiques et écosystémiques / Pelagic and Ecosystem Science Branch
Direction régionale des Sciences / Regional Science Directorate
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Courriel / E-mail : michel.gilbert@dfo-mpo.gc.ca
http://www.qc.dfo-mpo.gc.ca/iml

Ma langue, une question de respect
My language, a matter of respect

De : Doniol-Valcroze, Thomas
Envoyé : 11 mai 2017 22:28
À : de Lafontaine, Yves; Gilbert, Michel; Castonguay, Martin
Cc : Racine, Sylvi
Objet : RE: Mino briefing on mackerel

Bonsoir Yves,

J'ai intégré tes commentaires et ceux de Michel dans cette version. J'espère que c'est mieux comme ça.

Il est peut-être temps de demander leur avis à l'équipe de Jean?

Thomas

De : de Lafontaine, Yves
Envoyé : 11 mai 2017 18:00
À : Doniol-Valcroze, Thomas; Gilbert, Michel; Castonguay, Martin
Cc : Racine, Sylvi
Objet : Re: Mino briefing on mackerel

Bonjour à tous,

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Ou en sommes-nous avec ce breffage? Peut-on avoir une nouvelle version car nous devons finaliser pour demain au bureau de Ottawa. Svp me transmettre votre nouvelle version.

Envoyé de mon smartphone BlackBerry 10 sur le réseau Bell.

De: de Lafontaine, Yves
Envoyé: lundi 8 mai 2017 22:33
À: Doniol-Valcroze, Thomas; Gilbert, Michel; Castonguay, Martin
Cc: Racine, Sylvi
Objet: RE: Mino briefing on mackerel

Mes commentaires.

Yves de Lafontaine

Directeur, Institut Maurice Lamontagne
Directeur, Direction régionale des Sciences
Pêches et Océans Canada / Gouvernement du Canada
Yves.delafontaine@dfo-mpo.gc.ca Tél. : 418-775-0555 / tél. cell. : [redacted]

Director, Maurice Lamontagne Institute
Director, Sciences regional directorate
Fisheries and Oceans Canada / Government of Canada
Yves.delafontaine@dfo-mpo.gc.ca Tel : 418-775-0555 / Cel. : [redacted]



De : Doniol-Valcroze, Thomas
Envoyé : 8 mai 2017 21:40
À : Gilbert, Michel <Michel.Gilbert@dfo-mpo.gc.ca>
Cc : Racine, Sylvi <Sylvi.Racine@dfo-mpo.gc.ca>; Castonguay, Martin <Martin.Castonguay@dfo-

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mpo.gc.ca>; de Lafontaine, Yves <Yves.deLafontaine@dfo-mpo.gc.ca>
Objet : RE: Mino briefing on mackerel

Michel,

Voici une première ébauche de breffage technique sur le maquereau, basée sur des diapos de Julie Marentette et sur notre présentation à AMAC. Il faudra les adapter en fonction de la décision du ministre.

Dites-nous ce que vous en pensez.

Thomas

De : Gilbert, Michel
Envoyé : 8 mai 2017 08:54
À : Castonguay, Martin
Cc : de Lafontaine, Yves; Racine, Sylvi; Doniol-Valcroze, Thomas
Objet : RE: Mino briefing on mackerel

Martin,

STP me contacter aujourd'hui à ce sujet. Étant donné votre voyage cette semaine à Woodshole, il faut se coordonner avec Sylvi le plus rapidement possible pour préparer le matériel requis.

Merci à l'avance !

Michel G.

Michel Gilbert, M. Sc.
Directeur / Director
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Direction régionale des Sciences / Regional Science Directorate
Pêches et Océans Canada / Fisheries and Oceans Canada
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Téléc. / Fax : (418) 775-0718
Courriel / E-mail : michel.gilbert@dfo-mpo.gc.ca
http://www.qc.dfo-mpo.gc.ca/iml

Ma langue, une question de respect
My language, a matter of respect

De : de Lafontaine, Yves
Envoyé : 5 mai 2017 18:05
À : Gilbert, Michel; Racine, Sylvi; Castonguay, Martin
Objet : TR: Mino briefing on mackerel

Bonjour

Le dossier « maquereau » requiert un breffage technique pour les média afin de répondre aux questions éventuels suite à la sortie de l'avis ministériel du TAC. Jean Landry va envoyer un exemple de ce qui a

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été fait pour Terre-Neuve récemment (crevette) et qu'on pourra utiliser. L'équipe de Jean peut aussi nous donner un coup de pouce et doit absolument voir le produit final avant la sortie. Donc on travaille de concert avec eux pour préparer et finaliser le matériel.
Le ministre ferait l'annonce le 15 ou 16 mai prochain, ce qui laisse un peu de temps, mais selon la décision finale de la gestion des pêches, il faudra ajuster le discours et les Q&R.

SVP coordonner la production entre vous trois. Je vous transmets info dès réception.

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J'ai 30 ans / I'm 30 years old
INSTITUT MAURICE-LAMONTAGNE
MAURICE LAMONTAGNE INSTITUTE

De : Landry, Jean
Envoyé : 4 mai 2017 17:52
À : Vézina, Alain <Alain.Vezina@dfo-mpo.gc.ca>; de Lafontaine, Yves <Yves.deLafontaine@dfo-mpo.gc.ca>
Cc : Chin, Melanie <Melanie.Chin@dfo-mpo.gc.ca>; White, Andrea <Andrea.White@dfo-mpo.gc.ca>; Northcott, Jennifer <Jennifer.Northcott@dfo-mpo.gc.ca>; Krohn, Martha <Martha.Krohn@dfo-mpo.gc.ca>
Objet : Fw: Mino briefing on mackerel

Alain: on va aussi devoir produire un court texte sur les progres realises avec l,avaluation sur le maquereau. J.anticipe un breffage avec le ministre sur le maqureau pour le 15 ou 16 mai (TBC).

Yves: un breffage technique pour les media a été demande étant donné la sensibilite liee a cet enjeu. Details a venir mais on devrait anticiper un breffage en français et un en anglais.

Jean

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From: Burns, Adam <Adam.Burns@dfo-mpo.gc.ca>
Sent: Thursday, May 4, 2017 5:11 PM
To: French, Christopher
Cc: Lapointe, Sylvie; Landry, Jean
Subject: Mino briefing on mackerel

Hi,

We had a mino briefing on mackerel science today where Jean Landry, Martha Krohn and I reviewed the improvements which have occurred in mackerel science over the last year as well as management improvements related to monitoring and reporting which are being implemented for the coming season.

It went well, the only outcome being a request from mino (Sheldon) that the dept consider a joint technical briefing on science and management when the decision comes out -- perhaps one in English and one in French.

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Marentette, Julie

From: Krohn, Martha
Sent: May-15-17 12:07 PM
To: Marentette, Julie
Subject: FW: Mino briefing on mackerel
Attachments: Atlantic Mackerel Briefing draft.ppt

Follow Up Flag: Follow up
Flag Status: Flagged

It does not look like I forwarded this to you, apologies. Once you have had the time to look at it, let me know. I will take a look too.
Thanks!
Martha

From: de Lafontaine, Yves
Sent: May-12-17 11:11 AM
To: Landry, Jean; Krohn, Martha
Cc: Vincent, Patrick; Doniol-Valcroze, Thomas; Castonguay, Martin; Gilbert, Michel
Subject: TR: Mino briefing on mackerel

Bonjour Martha et Jean,

Voici la dernière version du deck de breffage pour le maquereau ajusté en fonction des scénarios de TAC à 10,000 t. En cas de questions, n'hésitez pas à appeler.
Martin et Thomas sont en route aujourd'hui de retour des USA et seront disponibles lundi matin pour toute discussion du dossier.

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De : Gilbert, Michel
Envoyé : 12 mai 2017 10:59
À : Doniol-Valcroze, Thomas <Thomas.Doniol-Valcroze@dfo-mpo.gc.ca>; Castonguay, Martin <Martin.Castonguay@dfo-mpo.gc.ca>
Cc : Racine, Sylvi <Sylvi.Racine@dfo-mpo.gc.ca>; de Lafontaine, Yves <Yves.deLafontaine@dfo-mpo.gc.ca>; Landry, Jean <Jean.Landry@dfo-mpo.gc.ca>
Objet : RE: Mino briefing on mackerel

Merci Thomas !

Nous avons quelques petites corrections mineurs (éditoriales) et Yves va la transférer à Jean Landry sous peu. Prenez note que mon message ce matin ne contenait pas la bonne présentation et j'ai rectifié le tir avec Yves. Toutes mes excuses !

Prenez note enfin qu'il y aura un appel avec le ministre sur cette question lundi matin à 9h30 et il est crucial que toi et/ou Martin soyez présents au bureau de Yves à ce moment pour répondre à des questions techniques s'il y a lieu.

Merci à l'avance et bon retour !

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My language, a matter of respect

De : Doniol-Valcroze, Thomas
Envoyé : 11 mai 2017 22:28
À : de Lafontaine, Yves; Gilbert, Michel; Castonguay, Martin
Cc : Racine, Sylvi
Objet : RE: Mino briefing on mackerel

Bonsoir Yves,

J'ai intégré tes commentaires et ceux de Michel dans cette version. J'espère que c'est mieux comme ça.

Il est peut-être temps de demander leur avis à l'équipe de Jean?

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De : de Lafontaine, Yves
Envoyé : 11 mai 2017 18:00
À : Doniol-Valcroze, Thomas; Gilbert, Michel; Castonguay, Martin
Cc : Racine, Sylvi
Objet : Re: Mino briefing on mackerel

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Envoyé: lundi 8 mai 2017 22:33
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Cc: Racine, Sylvi
Objet: RE: Mino briefing on mackerel

Mes commentaires.

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De : Doniol-Valcroze, Thomas
Envoyé : 8 mai 2017 21:40
À : Gilbert, Michel <Michel.Gilbert@dfo-mpo.gc.ca>
Cc : Racine, Sylvi <Sylvi.Racine@dfo-mpo.gc.ca>; Castonguay, Martin <Martin.Castonguay@dfo-mpo.gc.ca>; de Lafontaine, Yves <Yves.deLafontaine@dfo-mpo.gc.ca>
Objet : RE: Mino briefing on mackerel

Michel,

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Envoyé : 8 mai 2017 08:54
À : Castonguay, Martin
Cc : de Lafontaine, Yves; Racine, Sylvi; Doniol-Valcroze, Thomas
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INSTITUT MAURICE-LAMONTAGNE / MAURICE LAMONTAGNE INSTITUTE

De : Landry, Jean
Envoyé : 4 mai 2017 17:52
À : Vézina, Alain <Alain.Vezina@dfo-mpo.gc.ca>; de Lafontaine, Yves <Yves.deLafontaine@dfo-mpo.gc.ca>
Cc : Chin, Melanie <Melanie.Chin@dfo-mpo.gc.ca>; White, Andrea <Andrea.White@dfo-mpo.gc.ca>; Northcott, Jennifer <Jennifer.Northcott@dfo-mpo.gc.ca>; Krohn, Martha <Martha.Krohn@dfo-mpo.gc.ca>
Objet : Fw: Mino briefing on mackerel

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Sent from my BlackBerry 10 smartphone on the Rogers network.

From: Burns, Adam <Adam.Burns@dfo-mpo.gc.ca>
Sent: Thursday, May 4, 2017 5:11 PM
To: French, Christopher
Cc: Lapointe, Sylvie; Landry, Jean
Subject: Mino briefing on mackerel

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Pages 3134 to / à 3145
are duplicates of
sont des duplicatas des
pages 2728 to / à 2739

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Marentette, Julie

From: Marentette, Julie
Sent: May-15-17 1:24 PM
To: Krohn, Martha
Subject: RE: Mino briefing on mackerel

Hi Martha,

Please disregard my previous email – I matched the incorrect bullet on Slide 11 with the SAR bullets. Here are my comments.

- Slide 3: typo, additional should have one n
- Slide 5: Is it worth mentioning that some undeclared mackerel may also be caught by the American fishery? This is mentioned on slide 3 so maybe don't need to point it out twice.

Agreed about the SSB form in slide 11 and in the utility of having the decision table as an Annex (although if this is being presented to the public as a slideshow – hard to have an annex for this?). Interestingly the SAR does not have the same graph in it, in the SAR it only goes up to 2013. Maybe the Res Doc that comes out of it will have the graph.

Slide 12: the official English translation used "facilitate" recovery.

Best regards,

Julie Marentette, Ph.D.

Science Advisor, Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Julie.Marentette@dfo-mpo.gc.ca /Tel: 613-943-2098

Conseillère scientifique, Sciences des populations halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Julie.Marentette@dfo-mpo.gc.ca /Tél: 613-943-2098

From: Krohn, Martha
Sent: May-15-17 1:08 PM
To: Marentette, Julie
Subject: RE: Mino briefing on mackerel

Hi Julie,
The presentation look good to me, I would only have a couple small comments:
The y axis for the SSB time series could be in '000 tons instead of exponential form (the SAR has the same table in that format)
The slide says: "total catches should be low enough to maximize recovery?' is it more like "promote" recovery ? Maximize recovery would be no catches, presumably no directed fishing? It may be a translation issue because the French says "favoriser"

Should be consistent with the advice.

It would be good to have the decision table handy for questions, in an annex maybe?

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Thanks,

Martha

From: de Lafontaine, Yves
Sent: May-12-17 11:11 AM
To: Landry, Jean; Krohn, Martha
Cc: Vincent, Patrick; Doniol-Valcroze, Thomas; Castonguay, Martin; Gilbert, Michel
Subject: TR: Mino briefing on mackerel

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MAURICE LAMONTAGNE INSTITUTE

De : Gilbert, Michel
Envoyé : 12 mai 2017 10:59
À : Doniol-Valcroze, Thomas <Thomas.Doniol-Valcroze@dfo-mpo.gc.ca>; Castonguay, Martin <Martin.Castonguay@dfo-mpo.gc.ca>
Cc : Racine, Sylvi <Sylvi.Racine@dfo-mpo.gc.ca>; de Lafontaine, Yves <Yves.deLafontaine@dfo-mpo.gc.ca>; Landry, Jean <Jean.Landry@dfo-mpo.gc.ca>
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De : Doniol-Valcroze, Thomas
Envoyé : 11 mai 2017 22:28
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Cc : Racine, Sylvi
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Envoyé : 11 mai 2017 18:00
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De: de Lafontaine, Yves
Envoyé: lundi 8 mai 2017 22:33
À: Doniol-Valcroze, Thomas; Gilbert, Michel; Castonguay, Martin
Cc: Racine, Sylvi
Objet: RE: Mino briefing on mackerel

Mes commentaires.

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Téléc. / Fax : (418) 775-0718
Courriel / E-mail : michel.gilbert@dfo-mpo.gc.ca
http://www.qc.dfo-mpo.gc.ca/iml

Ma langue, une question de respect
My language, a matter of respect

De : de Lafontaine, Yves
Envoyé : 5 mai 2017 18:05
À : Gilbert, Michel; Racine, Sylvi; Castonguay, Martin
Objet : TR: Mino briefing on mackerel

Bonjour

Le dossier « maquereau » requiert un breffage technique pour les média afin de répondre aux questions éventuels suite à la sortie de l'avis ministériel du TAC. Jean Landry va envoyer un exemple de ce qui a été fait pour Terre-Neuve récemment (crevette) et qu'on pourra utiliser. L'équipe de Jean peut aussi nous donner un coup de pouce et doit absolument voir le produit final avant la sortie. Donc on travaille de concert avec eux pour préparer et finaliser le matériel.

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s.16(2)

Le ministre ferait l'annonce le 15 ou 16 mai prochain, ce qui laisse un peu de temps, mais selon la décision finale de la gestion des pêches, il faudra ajuster le discours et les Q&R.

SVP coordonner la production entre vous trois. Je vous transmets info dès réception.

Yves de Lafontaine

Directeur, Institut Maurice Lamontagne
Directeur, Direction régionale des Sciences
Pêches et Océans Canada / Gouvernement du Canada
Yves.delafontaine@dfo-mpo.gc.ca Tél. : 418-775-0555 / tél. cell. :

Director, Maurice Lamontagne Institute
Director, Sciences regional directorate
Fisheries and Oceans Canada / Government of Canada
Yves.delafontaine@dfo-mpo.gc.ca Tel : 418-775-0555 / Cel. :

J'ai 30 ans / I'm 30 years old
INSTITUT MAURICE-LAMONTAGNE
MAURICE LAMONTAGNE INSTITUTE

De : Landry, Jean
Envoyé : 4 mai 2017 17:52
À : Vézina, Alain <Alain.Vezina@dfo-mpo.gc.ca>; de Lafontaine, Yves <Yves.deLafontaine@dfo-mpo.gc.ca>
Cc : Chin, Melanie <Melanie.Chin@dfo-mpo.gc.ca>; White, Andrea <Andrea.White@dfo-mpo.gc.ca>; Northcott, Jennifer <Jennifer.Northcott@dfo-mpo.gc.ca>; Krohn, Martha <Martha.Krohn@dfo-mpo.gc.ca>
Objet : Fw: Mino briefing on mackerel

Alain: on va aussi devoir produire un court texte sur les progres realises avec l,avaluation sur le maquereau. J.anticipe un breffage avec le ministre sur le maqureau pour le 15 ou 16 mai (TBC).

Yves: un breffage technique pour les media a été demande étant donné la sensibilite liee a cet enjeu. Details a venir mais on devrait anticiper un breffage en français et un en anglais.

Jean

Sent from my BlackBerry 10 smartphone on the Rogers network.

From: Burns,
Adam

Document Released Under the Access to Information Act / Document divulgué en vertu de la Loi sur l'accès à l'information.

<Adam.Burns@dfo-mpo.gc.ca>
Sent: Thursday, May 4, 2017 5:11 PM
To: French, Christopher
Cc: Lapointe, Sylvie; Landry, Jean
Subject: Mino briefing on mackerel

Hi,

We had a mino briefing on mackerel science today where Jean Landry, Martha Krohn and I reviewed the improvements which have occurred in mackerel science over the last year as well as management improvements related to monitoring and reporting which are being implemented for the coming season.

It went well, the only outcome being a request from mino (Sheldon) that the dept consider a joint technical briefing on science and management when the decision comes out -- perhaps one in English and one in French.

AB
Sent from my BlackBerry 10 smartphone on the Rogers network.

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Marentette, Julie

From: Krohn, Martha
Sent: May-16-17 10:51 AM
To: Doniol-Valcroze, Thomas; Castonguay, Martin
Cc: Marentette, Julie
Subject: RE: Mino briefing on mackerel

I forgot to mention this other suggestion:

The y axis for the SSB time series could be in '000 tons instead of exponential form (the SAR has the same table in that format)

From: Krohn, Martha
Sent: May-15-17 4:30 PM
To: Doniol-Valcroze, Thomas; Castonguay, Martin
Cc: Gilbert, Michel; Landry, Jean; Marentette, Julie
Subject: RE: Mino briefing on mackerel

Hi Thomas and Martin,

The presentation looks great, looks like the right level for a media briefing. I am sure the will be very interested.
A couple small points for your consideration from myself and Julie:

Slide 12: the official English translation of summary bullets used "facilitate" recovery ("maximize" recovery would be no fishing?)
Slide 3: typo, additional should have one n
Slide 5: Is it worth mentioning that some undeclared mackerel may also be caught by the American fishery? This is mentioned on slide 3 so maybe don't need to point it out twice.

Would you have the decision table handy at the media briefing in case there are questions about probabilities of growth for other TAC levels?

Jean may have something to add.

Merci!
Martha

From: de Lafontaine, Yves
Sent: May-12-17 11:11 AM
To: Landry, Jean; Krohn, Martha
Cc: Vincent, Patrick; Doniol-Valcroze, Thomas; Castonguay, Martin; Gilbert, Michel
Subject: TR: Mino briefing on mackerel

Bonjour Martha et Jean,

Voici la dernière version du deck de breffage pour le maquereau ajusté en fonction des scénarios de TAC à 10,000 t. En cas de questions, n'hésitez pas à appeler.

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s.16(2)

Martin et Thomas sont en route aujourd'hui de retour des USA et seront disponibles lundi matin pour toute discussion du dossier.

Yves de Lafontaine

Directeur, Institut Maurice Lamontagne
Directeur, Direction régionale des Sciences
Pêches et Océans Canada / Gouvernement du Canada
Yves.delafontaine@dfo-mpo.gc.ca Tél. : 418-775-0555 / tél. cell. :

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Yves.delafontaine@dfo-mpo.gc.ca Tel : 418-775-0555 / Cel. :

J'ai 30 ans / I'm 30 years old
INSTITUT MAURICE-LAMONTAGNE
MAURICE LAMONTAGNE INSTITUTE

De : Gilbert, Michel
Envoyé : 12 mai 2017 10:59
À : Doniol-Valcroze, Thomas <Thomas.Doniol-Valcroze@dfo-mpo.gc.ca>; Castonguay, Martin <Martin.Castonguay@dfo-mpo.gc.ca>
Cc : Racine, Sylvi <Sylvi.Racine@dfo-mpo.gc.ca>; de Lafontaine, Yves <Yves.deLafontaine@dfo-mpo.gc.ca>; Landry, Jean <Jean.Landry@dfo-mpo.gc.ca>
Objet : RE: Mino briefing on mackerel

Merci Thomas !

Nous avons quelques petites corrections mineurs (éditoriales) et Yves va la transférer à Jean Landry sous peu. Prenez note que mon message ce matin ne contenait pas la bonne présentation et j'ai rectifié le tir avec Yves. Toutes mes excuses !

Prenez note enfin qu'il y aura un appel avec le ministre sur cette question lundi matin à 9h30 et il est crucial que toi et/ou Martin soyez présents au bureau de Yves à ce moment pour répondre à des questions techniques s'il y a lieu.

Merci à l'avance et bon retour !

Michel G.

Michel Gilbert, M. Sc.
Directeur / Director
Direction des sciences pélagiques et écosystémiques / Pelagic and Ecosystem Science Branch
Direction régionale des Sciences / Regional Science Directorate
Pêches et Océans Canada / Fisheries and Oceans Canada
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Courriel / E-mail : michel.gilbert@dfo-mpo.gc.ca
http://www.qc.dfo-mpo.gc.ca/iml

Ma langue, une question de respect / My language, a matter of respect

De : Doniol-Valcroze, Thomas
Envoyé : 11 mai 2017 22:28
À : de Lafontaine, Yves; Gilbert, Michel; Castonguay, Martin
Cc : Racine, Sylvi
Objet : RE: Mino briefing on mackerel

Bonsoir Yves,

J'ai intégré tes commentaires et ceux de Michel dans cette version. J'espère que c'est mieux comme ça.

Il est peut-être temps de demander leur avis à l'équipe de Jean?

Thomas

De : de Lafontaine, Yves
Envoyé : 11 mai 2017 18:00
À : Doniol-Valcroze, Thomas; Gilbert, Michel; Castonguay, Martin
Cc : Racine, Sylvi
Objet : Re: Mino briefing on mackerel

Bonjour à tous,

Ou en sommes-nous avec ce breffage? Peut-on avoir une nouvelle version car nous devons finaliser pour demain au bureau de Ottawa. Svp me transmettre votre nouvelle version.

Envoyé de mon smartphone BlackBerry 10 sur le réseau Bell.

De: de Lafontaine, Yves
Envoyé: lundi 8 mai 2017 22:33
À: Doniol-Valcroze, Thomas; Gilbert, Michel; Castonguay, Martin
Cc: Racine,

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s.16(2)

Sylvi
Objet: RE:
Mino
briefing on
mackerel

Mes commentaires.

Yves de Lafontaine

Directeur, Institut Maurice Lamontagne
Directeur, Direction régionale des Sciences
Pêches et Océans Canada / Gouvernement du Canada
Yves.delafontaine@dfo-mpo.gc.ca Tél. : 418-775-0555 / tél. cell. : [redacted]

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J'ai 30 ans / I'm 30 years old
INSTITUT MAURICE-LAMONTAGNE
MAURICE LAMONTAGNE INSTITUTE

De : Doniol-Valcroze, Thomas
Envoyé : 8 mai 2017 21:40
À : Gilbert, Michel <Michel.Gilbert@dfo-mpo.gc.ca>
Cc : Racine, Sylvi <Sylvi.Racine@dfo-mpo.gc.ca>; Castonguay, Martin <Martin.Castonguay@dfo-mpo.gc.ca>; de Lafontaine, Yves <Yves.deLafontaine@dfo-mpo.gc.ca>
Objet : RE: Mino briefing on mackerel

Michel,

Voici une première ébauche de breffage technique sur le maquereau, basée sur des diapos de Julie Marentette et sur notre présentation à AMAC. Il faudra les adapter en fonction de la décision du ministre.

Dites-nous ce que vous en pensez.

Thomas

De : Gilbert, Michel
Envoyé : 8 mai 2017 08:54
À : Castonguay, Martin
Cc : de Lafontaine, Yves; Racine, Sylvi; Doniol-Valcroze, Thomas
Objet : RE: Mino briefing on mackerel

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s.16(2)

Martin,

STP me contacter aujourd'hui à ce sujet. Étant donné votre voyage cette semaine à Woodshole, il faut se coordonner avec Sylvi le plus rapidement possible pour préparer le matériel requis.

Merci à l'avance !

Michel G.

Michel Gilbert, M. Sc.
Directeur / Director
Direction des sciences pélagiques et écosystémiques / Pelagic and Ecosystem Science Branch
Direction régionale des Sciences / Regional Science Directorate
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Courriel / E-mail : michel.gilbert@dfo-mpo.gc.ca
http://www.qc.dfo-mpo.gc.ca/iml

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My language, a matter of respect

De : de Lafontaine, Yves
Envoyé : 5 mai 2017 18:05
À : Gilbert, Michel; Racine, Sylvi; Castonguay, Martin
Objet : TR: Mino briefing on mackerel

Bonjour

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Yves.delafontaine@dfo-mpo.gc.ca Tél. : 418-775-0555 / tél. cell. : [redacted]

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De : Landry, Jean
Envoyé : 4 mai 2017 17:52
À : Vézina, Alain <Alain.Vezina@dfo-mpo.gc.ca>; de Lafontaine, Yves <Yves.deLafontaine@dfo-mpo.gc.ca>
Cc : Chin, Melanie <Melanie.Chin@dfo-mpo.gc.ca>; White, Andrea <Andrea.White@dfo-mpo.gc.ca>; Northcott, Jennifer <Jennifer.Northcott@dfo-mpo.gc.ca>; Krohn, Martha <Martha.Krohn@dfo-mpo.gc.ca>
Objet : Fw: Mino briefing on mackerel

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Yves: un breffage technique pour les media a été demande étant donné la sensibilite liee a cet enjeu. Details a venir mais on devrait anticiper un breffage en français et un en anglais.

Jean

Sent from my BlackBerry 10 smartphone on the Rogers network.

From: Burns, Adam <Adam.Burns@dfo-mpo.gc.ca>
Sent: Thursday, May 4, 2017 5:11 PM
To: French, Christopher
Cc: Lapointe, Sylvie; Landry, Jean
Subject: Mino briefing on mackerel

Hi,

Document Released Under the Access to Information Act / Document divulgué en vertu de la Loi sur l'accès à l'information.

We had a mino briefing on mackerel science today where Jean Landry, Martha Krohn and I reviewed the improvements which have occurred in mackerel science over the last year as well as management improvements related to monitoring and reporting which are being implemented for the coming season.

It went well, the only outcome being a request from mino (Sheldon) that the dept consider a joint technical briefing on science and management when the decision comes out -- perhaps one in English and one in French.

AB
Sent from my BlackBerry 10 smartphone on the Rogers network.

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Smith, Kathleen

From: Beamish, Kayla
Sent: May-16-17 9:03 PM
To: Perron, Heloise; Smith, Kathleen; Northcott, Jennifer
Cc: Perrault, Isabelle; Nielsen, Ingrid
Subject: Re: Mino briefing on mackerel

Have asked program for more info/to follow up for answers on this about timing, how the tech brief would roll out, etc. Hoping to get more info tomorrow..
Sent from my BlackBerry 10 smartphone on the Rogers network.

From: Perron, Heloise
Sent: Tuesday, May 16, 2017 8:59 PM
To: Smith, Kathleen; Northcott, Jennifer
Cc: Perrault, Isabelle; Beamish, Kayla; Nielsen, Ingrid
Subject: Re: Mino briefing on mackerel

Sylvi tried to get in touch with me last week to let me know there was a wish for a tech briefing on mackerel. She sent an email on Friday. I didn't hear anything else on this.

Sent from my BlackBerry 10 smartphone on the Rogers network.

From: Smith, Kathleen
Sent: Tuesday, May 16, 2017 2:42 PM
To: Northcott, Jennifer; Perron, Heloise
Cc: Perrault, Isabelle; Beamish, Kayla; Nielsen, Ingrid
Subject: RE: Mino briefing on mackerel

Just bringing Kayla in as she will be on point for this from EFM.
(and Ingrid)

From: Northcott, Jennifer
Sent: May-16-17 2:38 PM
To: Smith, Kathleen; Perron, Heloise
Cc: Perrault, Isabelle
Subject: FW: Mino briefing on mackerel

Hi Kathleen:

As discussed. MINO mentioned that they would like a bilingual tech briefing when the TAC decision is released. I think the current thinking is Halifax. Science has a deck prepared and is wondering if EFM is doing one too. I understand from my chat with Jean Landry that Science and EFM are looking for clarification from MINO as to who's leading the tech briefing and when and where this will take place.

Heloise: Do you know anything else about this?
Both: Who approaches MINO about this?

Jen

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From: Landry, Jean
Sent: May-16-17 12:23 PM
To: White, Andrea; de Lafontaine, Yves
Cc: Krohn, Martha; Marentette, Julie; Burns, Adam; Lester, Brian; Northcott, Jennifer; Perron, Heloise
Subject: TR: Mino briefing on mackerel

Andy,

Attached is the draft deck for the potential technical media briefing on mackerel. Below Martha has provided few suggestions to Quebec Science's team. You may want to provide this deck to Arran when she is back. I have no major flag to raise about this deck. As discussed with Brian this morning, I take the opportunity of this email to share this **draft** deck with our EFM colleagues at HQ as I understand that they may want to prepare a deck covering the management aspects as part of this briefing (to be confirmed with EFM). I also CC our colleagues from COMM.

Next steps:

- Would be important to get some intel from yesterday's Min briefing on mackerel. Is this still the plan to conduct such briefing and if so, when and where? On this matter, Yves and I had a preliminary chat on the location and Halifax was mentioned as an option (one technical briefing in French and English in one location). Can you please check with ADMO about the next steps as Yves' team will need to know and plan accordingly. Adam: any thoughts on this?

Yves: Est-ce que tu as une version française en préparation? Sinon, on peut s'en occuper ici. Tu n'as qu'à m'expédier la version finale anglaise et on procédera. Nous t'expédierons la version française pour validation par ton équipe.

Jean
Jean Landry
Director , Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Jean.Landry@dfo-mpo.gc.ca / Tel: 613-993-0029

Directeur, Sciences halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Jean.Landry@dfo-mpo.gc.ca / Tél. : 613-993-0029

Government of Canada / Gouvernement du Canada

Canada

De : Krohn, Martha
Envoyé : 15 mai 2017 16:30
À : Doniol-Valcroze, Thomas <Thomas.Doniol-Valcroze@dfo-mpo.gc.ca>; Castonguay, Martin <Martin.Castonguay@dfo-mpo.gc.ca>
Cc : Gilbert, Michel <Michel.Gilbert@dfo-mpo.gc.ca>; Landry, Jean <Jean.Landry@dfo-mpo.gc.ca>; Marentette, Julie <Julie.Marentette@dfo-mpo.gc.ca>
Objet : RE: Mino briefing on mackerel

Hi Thomas and Martin,

The presentation looks great, looks like the right level for a media briefing. I am sure the will be very interested.
A couple small points for your consideration from myself and Julie:

Slide 12: the official English translation of summary bullets used "facilitate" recovery ("maximize" recovery would be no fishing?)

s.16(2)
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Slide 3: typo, additional should have one n
Slide 5: Is it worth mentioning that some undeclared mackerel may also be caught by the American fishery? This is mentioned on slide 3 so maybe don't need to point it out twice.

Would you have the decision table handy at the media briefing in case there are questions about probabilities of growth for other TAC levels?

Jean may have something to add.

Merci!
Martha

From: de Lafontaine, Yves
Sent: May-12-17 11:11 AM
To: Landry, Jean; Krohn, Martha
Cc: Vincent, Patrick; Doniol-Valcroze, Thomas; Castonguay, Martin; Gilbert, Michel
Subject: TR: Mino briefing on mackerel

Bonjour Martha et Jean,

Voici la dernière version du deck de breffage pour le maquereau ajusté en fonction des scénarios de TAC à 10,000 t. En cas de questions, n'hésitez pas à appeler.
Martin et Thomas sont en route aujourd'hui de retour des USA et seront disponibles lundi matin pour toute discussion du dossier.

Yves de Lafontaine

Directeur, Institut Maurice Lamontagne
Directeur, Direction régionale des Sciences
Pêches et Océans Canada / Gouvernement du Canada
Yves.delafontaine@dfo-mpo.gc.ca Tél. : 418-775-0555 / tél. cell. : [redacted]

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Director, Sciences regional directorate
Fisheries and Oceans Canada / Government of Canada
Yves.delafontaine@dfo-mpo.gc.ca Tel : 418-775-0555 / Cel. : [redacted]



De : Gilbert, Michel
Envoyé : 12 mai 2017 10:59

Document Released Under the Access to Information Act / Document divulgué en vertu de la Loi sur l'accès à l'information.

À : Doniol-Valcroze, Thomas <Thomas.Doniol-Valcroze@dfo-mpo.gc.ca>; Castonguay, Martin <Martin.Castonguay@dfo-mpo.gc.ca>
Cc : Racine, Sylvi <Sylvi.Racine@dfo-mpo.gc.ca>; de Lafontaine, Yves <Yves.deLafontaine@dfo-mpo.gc.ca>; Landry, Jean <Jean.Landry@dfo-mpo.gc.ca>
Objet : RE: Mino briefing on mackerel

Merci Thomas !

Nous avons quelques petites corrections mineurs (éditoriales) et Yves va la transférer à Jean Landry sous peu. Prenez note que mon message ce matin ne contenait pas la bonne présentation et j'ai rectifié le tir avec Yves. Toutes mes excuses !

Prenez note enfin qu'il y aura un appel avec le ministre sur cette question lundi matin à 9h30 et il est crucial que toi et/ou Martin soyez présents au bureau de Yves à ce moment pour répondre à des questions techniques s'il y a lieu.

Merci à l'avance et bon retour !

Michel G.

Michel Gilbert, M. Sc.
Directeur Director
Direction des sciences pélagiques et écosystémiques Pelagic and Ecosystem Science Branch
Direction régionale des Sciences Regional Science Directorate
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Courriel E-mail : michel.gilbert@dfo-mpo.gc.ca
http://www.qc.dfo-mpo.gc.ca/iml

Ma langue, une question de respect
My language, a matter of respect

De : Doniol-Valcroze, Thomas
Envoyé : 11 mai 2017 22:28
À : de Lafontaine, Yves; Gilbert, Michel; Castonguay, Martin
Cc : Racine, Sylvi
Objet : RE: Mino briefing on mackerel

Bonsoir Yves,

J'ai intégré tes commentaires et ceux de Michel dans cette version. J'espère que c'est mieux comme ça.

Il est peut-être temps de demander leur avis à l'équipe de Jean?

Thomas

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s.16(2)

De : de Lafontaine, Yves
Envoyé : 11 mai 2017 18:00
À : Doniol-Valcroze, Thomas; Gilbert, Michel; Castonguay, Martin
Cc : Racine, Sylvi
Objet : Re: Mino briefing on mackerel

Bonjour à tous,

Ou en sommes-nous avec ce breffage? Peut-on avoir une nouvelle version car nous devons finaliser pour demain au bureau de Ottawa. Svp me transmettre votre nouvelle version.

Envoyé de mon smartphone BlackBerry 10 sur le réseau Bell.

De: de Lafontaine, Yves
Envoyé: lundi 8 mai 2017 22:33
À: Doniol-Valcroze, Thomas; Gilbert, Michel; Castonguay, Martin
Cc: Racine, Sylvi
Objet: RE: Mino briefing on mackerel

Mes commentaires.

Yves de Lafontaine

Directeur, Institut Maurice Lamontagne
Directeur, Direction régionale des Sciences
Pêches et Océans Canada / Gouvernement du Canada
Yves.delafontaine@dfo-mpo.gc.ca Tél. : 418-775-0555 / tél. cell. : [redacted]

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Yves.delafontaine@dfo-mpo.gc.ca Tel : 418-775-0555 / Cel. : [redacted]

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J'ai 30 ans / I'm 30 years old
INSTITUT MAURICE-LAMONTAGNE
MAURICE LAMONTAGNE INSTITUTE

De : Doniol-Valcroze, Thomas
Envoyé : 8 mai 2017 21:40
À : Gilbert, Michel <Michel.Gilbert@dfo-mpo.gc.ca>
Cc : Racine, Sylvi <Sylvi.Racine@dfo-mpo.gc.ca>; Castonguay, Martin <Martin.Castonguay@dfo-mpo.gc.ca>; de Lafontaine, Yves <Yves.deLafontaine@dfo-mpo.gc.ca>
Objet : RE: Mino briefing on mackerel

Michel,

Voici une première ébauche de breffage technique sur le maquereau, basée sur des diapos de Julie Marentette et sur notre présentation à AMAC. Il faudra les adapter en fonction de la décision du ministre.

Dites-nous ce que vous en pensez.

Thomas

De : Gilbert, Michel
Envoyé : 8 mai 2017 08:54
À : Castonguay, Martin
Cc : de Lafontaine, Yves; Racine, Sylvi; Doniol-Valcroze, Thomas
Objet : RE: Mino briefing on mackerel

Martin,

STP me contacter aujourd'hui à ce sujet. Étant donné votre voyage cette semaine à Woodshole, il faut se coordonner avec Sylvi le plus rapidement possible pour préparer le matériel requis.

Merci à l'avance !

Michel G.

Michel Gilbert, M. Sc.
Directeur / Director
Direction des sciences pélagiques et écosystémiques / Pelagic and Ecosystem Science Branch
Direction régionale des Sciences / Regional Science Directorate
Pêches et Océans Canada / Fisheries and Oceans Canada
Institut Maurice-Lamontagne / Maurice Lamontagne Institute
850, Route de la Mer, C.P. 1000
Mont-Joli, Québec, Canada G5H 3Z4
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Téléc. / Fax : (418) 775-0718
Courriel / E-mail : michel.gilbert@dfo-mpo.gc.ca

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s.16(2)

Ma langue. une question de respect My language. a matter of respect

De : de Lafontaine, Yves
Envoyé : 5 mai 2017 18:05
À : Gilbert, Michel; Racine, Sylvi; Castonguay, Martin
Objet : TR: Mino briefing on mackerel

Bonjour

Le dossier « maquereau » requiert un breffage technique pour les média afin de répondre aux questions éventuels suite à la sortie de l'avis ministériel du TAC. Jean Landry va envoyer un exemple de ce qui a été fait pour Terre-Neuve récemment (crevette) et qu'on pourra utiliser. L'équipe de Jean peut aussi nous donner un coup de pouce et doit absolument voir le produit final avant la sortie. Donc on travaille de concert avec eux pour préparer et finaliser le matériel.
Le ministre ferait l'annonce le 15 ou 16 mai prochain, ce qui laisse un peu de temps, mais selon la décision finale de la gestion des pêches, il faudra ajuster le discours et les Q&R.

SVP coordonner la production entre vous trois. Je vous transmets info dès réception.

Yves de Lafontaine

Directeur, Institut Maurice Lamontagne
Directeur, Direction régionale des Sciences
Pêches et Océans Canada / Gouvernement du Canada
Yves.delafontaine@dfo-mpo.gc.ca Tél. : 418-775-0555 / tél. cell. :

Director, Maurice Lamontagne Institute
Director, Sciences regional directorate
Fisheries and Oceans Canada / Government of Canada
Yves.delafontaine@dfo-mpo.gc.ca Tel : 418-775-0555 / Cel. :

J'ai 30 ans / I'm 30 years old
INSTITUT MAURICE-LAMONTAGNE
MAURICE LAMONTAGNE INSTITUTE

De : Landry, Jean
Envoyé : 4 mai 2017 17:52
À : Vézina, Alain <Alain.Vezina@dfo-mpo.gc.ca>; de Lafontaine, Yves <Yves.deLafontaine@dfo-mpo.gc.ca>

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Cc : Chin, Melanie <Melanie.Chin@dfo-mpo.gc.ca>; White, Andrea <Andrea.White@dfo-mpo.gc.ca>; Northcott, Jennifer <Jennifer.Northcott@dfo-mpo.gc.ca>; Krohn, Martha <Martha.Krohn@dfo-mpo.gc.ca>
Objet : Fw: Mino briefing on mackerel

Alain: on va aussi devoir produire un court texte sur les progres realises avec l,avaluation sur le maquereau. J.anticipe un breffage avec le ministre sur le maquereau pour le 15 ou 16 mai (TBC).

Yves: un breffage technique pour les media a été demande étant donné la sensibilite liee a cet enjeu. Details a venir mais on devrait anticiper un breffage en français et un en anglais.

Jean

Sent from my BlackBerry 10 smartphone on the Rogers network.

From: Burns, Adam <Adam.Burns@dfo-mpo.gc.ca>
Sent: Thursday, May 4, 2017 5:11 PM
To: French, Christopher
Cc: Lapointe, Sylvie; Landry, Jean
Subject: Mino briefing on mackerel

Hi,

We had a mino briefing on mackerel science today where Jean Landry, Martha Krohn and I reviewed the improvements which have occurred in mackerel science over the last year as well as management improvements related to monitoring and reporting which are being implemented for the coming season.

It went well, the only outcome being a request from mino (Sheldon) that the dept consider a joint technical briefing on science and management when the decision comes out -- perhaps one in English and one in French.

AB
Sent from my BlackBerry 10 smartphone on the Rogers network.

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s.21(1)(b)

Krohn, Martha

From: Marentette, Julie
Sent: May-17-17 10:52 AM
To: Krohn, Martha
Subject: FW: ML_Mackerel_TAC.docx
Attachments: ML_Mackerel_TAC.docx

Importance: High

Categories: Red Category

Hi Martha,

Media lines for Mackerel. As it stands, it sounds like the bullet in question says the PA approach specifies a high probability of growth at the current harvest level, when the PA approach refers to a high probability of stock growth out of the Critical zone in a reasonable timeframe.

- The established harvest level meets the Department's commitment to the Precautionary Approach in that there is a greater than 75% probability that the stock biomass will continue to increase at the established harvest level. Specifically, with commercial TAC of 10,000t [redacted] taking into account improved catch monitoring in the fishery.

I would suggest that the relevant bullet could be reworded as:

- The established harvest level allows for a greater than 75% probability that the stock biomass will continue to increase at the established harvest level. This corresponds to a high probability of growth and reflects the Department's commitment to the Precautionary Approach. Specifically, with commercial TAC of 10,000t [redacted] taking into account improved catch monitoring in the fishery.

Although not a Science bullet, I would also suggest that this bullet...

- The Department has initiated a DFO/ industry rebuilding plan working group for this stock that will meet over the coming year to develop a plan for consideration by the Atlantic Mackerel Advisory Committee.

Could be reworded to include additional info from the memo:

- The Department has initiated a DFO/ industry rebuilding plan working group for this stock that will meet over the coming year to develop a plan for consideration by the Atlantic Mackerel Advisory Committee to support rebuiliding the stock into the Healthy Zone of the Precautionary Approach Framework.

Best regards,

Julie Marentette, Ph.D.

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s.21(1)(b)

Science Advisor, Fish Population Science
Fisheries and Oceans Canada / Government of Canada
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Conseillère scientifique, Sciences des populations halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Julie.Marentette@dfo-mpo.gc.ca /Tél: 613-943-2098

From: Cawthray, Jenness
Sent: May-17-17 10:18 AM
To: Marentette, Julie; Beamish, Kayla
Cc: Lester, Brian
Subject: FW: ML_Mackerel_TAC.docx
Importance: High

Hi Julie, Kayla
Any suggestions on this from a science perspective? I think it is important to keep this sentence as is.
Kayla, we should also have science (Julie) review these lines.
The memo is currently in the Minister's office.
Let me know if there is anything else you need.
Thanks,
Jenness

From: Beamish, Kayla
Sent: May-10-17 12:12 PM
To: Cawthray, Jenness
Subject: RE: ML_Mackerel_TAC.docx

Hi Jenness,

Thanks for the edits – I think these may be the ones Brian shared with me a little while back...either way this new version has been saved to my folders here. Still no update on timing for this one I suppose (given the "May ? TBC" in the issue section). Do we have a ballpark?

My non-program brain is having trouble digesting this one. Is there a simpler way to say this?

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Also wondering who spokes is for this one. Listed as TBC for now.

Thanks!
Kayla

From: Cawthray, Jenness
Sent: May 10, 2017 10:56 AM
To: Beamish, Kayla
Subject: ML_Mackerel_TAC.docx
Importance: High

Document Released Under the Access to Information Act / Document divulgué en vertu de la Loi sur l'accès à l'information.

Hi Kayla!

Please see attached media lines for TAC and updated memo. The memo should move quickly though approvals (hopefully).
Can review the media lines? Clean them up and send a copy back to Brian and I for a quick review.
Thanks!

Jenness Cawthray
Senior Fisheries and Aquaculture Management Officer |
Agent principal, Gestion des pêches et de l'aquaculture
Fisheries and Oceans | Pêches et océans
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Government of Canada | Gouvernement du Canada

Pages 3171 to / à 3172

are duplicates of

sont des duplicatas des

pages 2964 to / à 2965

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Marentette, Julie

From: Beamish, Kayla
Sent: May-17-17 11:37 AM
To: Marentette, Julie
Cc: Cawthray, Jenness
Subject: RE: ML_Mackerel_TAC.docx
Attachments: ML_Mackerel_TAC.docx

Importance: High

Follow Up Flag: Follow up
Flag Status: Flagged

Hi Julie,

Just gave you a shout to discuss – let me know if you have any questions or concerns about the lines.
Also wondering if there's a way to simplify that bullet in the email trail. Maybe there isn't but I'm just thinking if someone asks me about it as I move these through approvals I will be like a deer in headlights!

Thanks!
Kayla

From: Cawthray, Jenness
Sent: May 17, 2017 10:18 AM
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Cc: Lester, Brian
Subject: FW: ML_Mackerel_TAC.docx
Importance: High

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s.21(1)(b)

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Also wondering who spokes is for this one. Listed as TBC for now.

Thanks!
Kayla

From: Cawthray, Jenness
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Importance: High

Hi Kayla!

Please see attached media lines for TAC and updated memo. The memo should move quickly though approvals (hopefully).
Can review the media lines? Clean them up and send a copy back to Brian and I for a quick review.
Thanks!

Jenness Cawthray
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s.21(1)(b)

Marentette, Julie

From: Krohn, Martha
Sent: May-17-17 1:01 PM
To: Marentette, Julie; Landry, Jean
Subject: RE: ML_Mackerel_TAC.docx

Follow Up Flag: Follow up
Flag Status: Completed

I agree with your wording, it is clearer and more accurate. I see no issues with the rest of the document.

From: Marentette, Julie
Sent: May-17-17 12:50 PM
To: Landry, Jean
Cc: Krohn, Martha
Subject: FW: ML_Mackerel_TAC.docx
Importance: High

Hi Martha and Jean,

We've received a request to look at media lines for Mackerel. As it stands, it sounds like the bullet in question (below) says the PA approach specifies a high probability of growth at the current harvest level, when the PA approach refers to a high probability of stock growth out of the Critical zone in a reasonable timeframe.

- The established harvest level meets the Department's commitment to the Precautionary Approach in that there is a greater than 75% probability that the stock biomass will continue to increase at the established harvest level. Specifically, with commercial TAC of 10,000t [redacted] taking into account improved catch monitoring in the fishery.

I would suggest that the relevant bullet could be reworded as:

- The established harvest level allows for a greater than 75% probability that the stock biomass will continue to increase at the established harvest level. This corresponds to a high probability of growth and reflects the Department's commitment to the Precautionary Approach. Specifically, with commercial TAC of 10,000t [redacted] taking into account improved catch monitoring in the fishery.

Although not a Science bullet, I would also suggest that this bullet...

- The Department has initiated a DFO/ industry rebuilding plan working group for this stock that will meet over the coming year to develop a plan for consideration by the Atlantic Mackerel Advisory Committee.

Could be reworded to include additional info from the memo:

- The Department has initiated a DFO/ industry rebuilding plan working group for this stock that will meet over the coming year to develop a plan for consideration by the Atlantic Mackerel Advisory

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Committee to support rebuilding the stock into the Healthy Zone of the Precautionary Approach Framework.

Best regards,

Julie Marentette, Ph.D.

s.21(1)(b)

Science Advisor, Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Julie.Marentette@dfo-mpo.gc.ca /Tel: 613-943-2098

Conseillère scientifique, Sciences des populations halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Julie.Marentette@dfo-mpo.gc.ca /Tél: 613-943-2098

From: Cawthray, Jenness
Sent: May-17-17 10:18 AM
To: Marentette, Julie; Beamish, Kayla
Cc: Lester, Brian
Subject: FW: ML_Mackerel_TAC.docx
Importance: High

Hi Julie, Kayla
Any suggestions on this from a science perspective? I think it is important to keep this sentence as is.
Kayla, we should also have science (Julie) review these lines.
The memo is currently in the Minister's office.
Let me know if there is anything else you need.
Thanks,
Jenness

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Also wondering who spokes is for this one. Listed as TBC for now.

Thanks!
Kayla

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Importance: High

Hi Kayla!

Please see attached media lines for TAC and updated memo. The memo should move quickly though approvals (hopefully).
Can review the media lines? Clean them up and send a copy back to Brian and I for a quick review.
Thanks!

Jenness Cawthray
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s.21(1)(b)

Marentette, Julie

From: Beamish, Kayla
Sent: May-17-17 3:36 PM
To: Cawthray, Jenness; Marentette, Julie
Cc: Krohn, Martha; Landry, Jean; Lester, Brian
Subject: RE: ML_Mackerel_TAC.docx

You got it. Will start approvals shortly and if any details change in the meantime I'll just tweak the doc as it's moving through.

Thanks!
Kayla

From: Cawthray, Jenness
Sent: May 17, 2017 3:31 PM
To: Marentette, Julie; Beamish, Kayla
Cc: Krohn, Martha; Landry, Jean; Lester, Brian
Subject: RE: ML_Mackerel_TAC.docx

Thank you Julie.
Kayla, I suggest you finalize the lines and move through approvals as the memo is in MINO.
Thank you!
Jenness

From: Marentette, Julie
Sent: May-17-17 3:28 PM
To: Beamish, Kayla
Cc: Cawthray, Jenness; Krohn, Martha; Landry, Jean
Subject: RE: ML_Mackerel_TAC.docx

Hi Kayla and Jenness,

The bullet could be reworded as:

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Let me know if this is still unclear, thanks!

Best regards,

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Science Advisor, Fish Population Science
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Cc: Cawthray, Jenness
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To: Cawthray, Jenness
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s.21(1)(b)

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Cyr, Charley

De: Dominiquie Gascon [redacted]
Envoyé: 17 mai 2017 16:23
À: Cyr, Charley
Objet: RE: Révision de l'avis sur le maquereau
Pièces jointes: AS_maquereau2017-fra (sans images).rtf

Le premier envoi a été bloqué (message trop gros); j'ai ôté les images, ce qui devrait aider.

Voilà mes commentaires (j'ai transformé le fichier en RTF parce que le logiciel qui ouvrait ta version ne me permettait pas d'éditer à mon goût). Des corrections grammaticales et d'erreurs typographiques surtout (j'ai clarifié pour mon profit (et le vôtre) la règle du non + adjectif).

Un seul commentaire plus substantiel à la fin sur la formulation de l'avis; j'espère que c'est clair, sinon vous pouvez m'appeler; je suis généralement disponibles les matins.

Dominique

De : Cyr, Charley [mailto:Charley.Cyr@dfo-mpo.gc.ca]
Envoyé : 9 mai 2017 08:29
À : Dominique Gascon
Objet : Révision de l'avis sur le maquereau

Bonjour Dominique,

J'espère que ça va bien de ton côté?
Nous avons reçu l'avis sur le maquereau.
Est-ce que tu pourrais le réviser avant approbation régionale svp?

Merci

Charley Cyr

Directeur, Avis, Informations et soutien scientifiques
Direction régionale des Sciences
Pêches et Océans Canada / Gouvernement du Canada
charley.cyr@dfo-mpo.gc.ca / Tél.: 418-775-0825

Director, Scientific Advices, Informations and Support
Science Regional Branch
Fisheries and Oceans Canada / Government of Canada
Charley.cyr@dfo-mpo.gc.ca / Tel.: 418-775-0825

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Ma langue, une question de respect / My language, a matter of respect

No information has been removed or severed from this page

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ÉVALUATION DU STOCK DE MAQUEREAU BLEU DU NORD-OUEST DE L'ATLANTIQUE (SOUS-RÉGIONS 3 ET 4) EN 2016



(Courtoisie: M. Claude Nozères)

Figure 1. Distribution (←) du maquereau (Scomber scombrus L.) dans le nord-ouest de l'Atlantique.

Contexte :

Le maquereau bleu (Scomber scombrus L.) fréquente les eaux de l'Atlantique Nord-Ouest de la Caroline du Nord à Terre-Neuve (Figure 1). Au printemps et à l'été, le maquereau fréquente les eaux côtières. Tard à l'automne et à l'hiver, on le retrouve en profondeur dans les eaux plus chaudes de la marge du plateau continental. Son aire de distribution est caractérisée par la présence de deux zones de ponte. En eaux canadiennes, la ponte se déroule principalement dans le sud du golfe du Saint-Laurent en juin et juillet. En eaux américaines, la ponte se produit entre les côtes du ~~Rhode~~Rhodes Island et de la Virginie au cours des mois de mars et avril.

Dans les provinces maritimes, à Terre-Neuve et au Québec (sous-régions 3 et 4 de l'OPANO), plusieurs milliers de pêcheurs commerciaux pratiquent la pêche au maquereau bleu. Celle-ci se déroule généralement près des côtes à l'aide du filet maillant, de la turlutte, de la ligne à la main, de la senne et de la trappe, selon la région et la période de l'année. Au cours des années 1980 et 1990, les débarquements des pêcheurs canadiens ont été stables avec une moyenne de 22 000 t par année. Cependant, une hausse importante s'est produite au début des années 2000 avec un maximum historique de 54 621 t en 2005. Les débarquements moyens de la période 2006-2010 ont été de 43 464 t. Ils ont été suivis d'une chute importante jusqu'à un minimum historique de 4 134 t en 2015.

Les débarquements canadiens de maquereau sont sous-estimés à cause de la pêche d'appât non-rapportée. De plus, les prises de la pêche récréative, qui se déroule au cours des mois d'été le long de la côte atlantique, ne sont pas rapportées, tout comme les rejets de petits maquereaux.

La dernière évaluation du contingent canadien de maquereau remonte à mars 2014. La Direction de la gestion des pêches et de l'aquaculture a sollicité un avis scientifique concernant le contingent canadien de maquereau pour les saisons 2017 et 2018.

SOMMAIRE

- Les débarquements commerciaux rapportés des sous-régions 3 et 4 de l'OPANO ont considérablement diminué au cours des dernières années. Entre 2005 et 2013, ils sont passés de 54 621 t à 8 663 t, pour atteindre 6 680 t en 2014 et 4 143 t en 2015. En 2016, le TAC de 8 000 t a été atteint.
- Les débarquements américains (commerciaux et récréatifs) des sous-régions 5 et 6 de l'OPANO ont aussi connu une baisse importante au cours des dernières années. Entre 2005 et 2012, ils sont passés de 43 220 t à 6 000 t et sont restés à ce niveau de 2013 à 2015.
- La problématique des prises non-déclarées a été examinée à l'aide d'une synthèse des données disponibles sur les besoins en appât et sur les pêches récréatives, ainsi qu'à l'aide d'un sondage en ligne auprès des pêcheurs. Les deux approches montrent que les prises totales peuvent atteindre entre 150 % et 200 % des prises déclarées, et que ce rapport varie selon les provinces et au cours du temps.

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- Suite à son augmentation au cours des dernières années, la longueur à 50 % de maturité se maintient légèrement au-dessus de la longueur minimale de capture autorisée de 263 mm.
- La structure d'âge au sein de la pêche s'est considérablement rétrécie depuis les années 2000 suite à la disparition des poissons de plus de 7 ans. Cependant, on observe une légère amélioration depuis 2013, avec une hausse d'abondance des maquereaux d'âge 5 et 6.
- L'indice d'abondance issu du relevé des œufs dans le sud du golfe a atteint son niveau le plus bas en 2012 (14 568 t), puis a remonté lentement jusqu'à 52 667 t en 2016. Cette valeur reste très en deçà des indices d'abondance de plus de 750 000 t observés dans les années 1980.
- Un modèle statistique de prises à l'âge, dit « censuré », calibré par l'indice d'abondance des œufs et prenant en compte l'incertitude autour des prises non déclarées, confirme que la biomasse reproductrice du maquereau a décliné suite à des taux d'exploitation élevés et a atteint son minimum historique en 2012 (20 000 t). Selon le modèle, la biomasse en 2016 était de 40 000 t.
- Le Point de Référence Limite (PRL) pour ce stock est basé sur une approximation de 40%Brms à partir de F40% tel qu'obtenu par une analyse de rendement par recrue. Suivant le modèle censuré, le stock se situe en 2016 à 40 % du PRL de 103 000 t.
- Des projections permettent d'estimer les risques associés à différents scénarios de capture. Étant donné que le stock se situe dans la zone critique, la capture totale (déclarées + non-déclarées) devrait être suffisamment faible pour favoriser le rétablissement.
- Il est particulièrement important de pallier aux lacunes dans l'échantillonnage de la pêche commerciale dans certains secteurs, d'accélérer la compilation des statistiques de débarquements et d'améliorer la collecte des données sur les prises non-déclarées.

RENSEIGNEMENTS DE BASE

Perspectives historiques

Suite à l'arrivée d'une pêche étrangère, les débarquements de maquereau bleu (*Scomber scombrus* L.) dans le nord-ouest de l'Atlantique (sous-régions 2 à 6 de l'OPANO) ont connu une hausse importante à partir de la fin des années 1960 atteignant des maximums historiques de plus de 250 000 t par année entre 1970 et 1976. Les débarquements de maquereau ont considérablement diminué en 1977 lors de l'instauration de la zone économique exclusive des 200 milles marins. Cependant, suite à des ententes au début des années 1980 entre les États-Unis et l'URSS, ils ont à nouveau augmenté pour atteindre près de 90 000 t en 1990 (Figure 2). Les débarquements ont connu par la suite une autre baisse importante en raison d'une réduction graduelle des contingents alloués par les États-Unis à l'URSS et de la fermeture complète de la pêche étrangère en 1992.

Les débarquements de maquereau ont connu une hausse de près de 400 % entre 2000 et 2006 en raison de la présence d'une classe d'âge très importante (1999) et d'une

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augmentation marquée de l'effort de pêche des petits et grands senneurs des côtes est et ouest de Terre-Neuve (Divisions 3KL et 4R). Des débarquements totaux de plus de 100 000 t ont été atteints en 2004 et 2006. Depuis 2006, les débarquements sont à la baisse et en 2015, ils étaient les plus faibles de la série historique Canada – États-Unis.

Le Total Admissible des Captures (TAC) pour le nord-ouest de l'Atlantique a été fixé à 200 000 t entre 1987 et 2000. Suite aux faibles biomasses estimées par le relevé canadien des œufs en 1996, 1998 et 2000, le TAC a été abaissé par le Canada à 150 000 t entre 2001 et 2009. Le TAC des sous-régions 3 et 4 est passé à 80 000 t suite à l'évaluation conjointe entre les États-Unis et le Canada de 2009–2010, à 60 000 t suite au Comité consultatif canadien de 2010 et à 36 000 t suite au Comité consultatif canadien de 2012. Durant toute cette période, les TAC canadiens n'ont jamais été atteints et n'ont donc pas eu de caractère limitant. En 2014, le TAC a été fixé à 8 000 t malgré un avis scientifique qui recommandait des prises annuelles ne dépassant pas 800 t (MPO 2014).

Figure 2. Débarquements (t) annuels de maquereau pour le nord-ouest de l'Atlantique (sous-régions 2 à 6 de l'OPANO) depuis 1978.

Débarquements en 2014 – 2016

Pour l'est du Canada (sous-régions 3 et 4 de l'OPANO), les débarquements se sont élevés à 6 680 t en 2014 et 4 143 t en 2015 (Tableau 1). Les débarquements de 2015 sont les plus bas de toute la série historique (depuis 1960) et restent très inférieurs à ceux des années 2001–2010. En 2016, le TAC de 8 000 t a été atteint pour la première fois (mais le décompte des débarquements par région est encore préliminaire). Aux États-Unis, les débarquements sont restés stables en dessous de 6 000 t depuis 2012, mais les chiffres pour 2016 ne sont pas encore disponibles.

Tableau 1. Débarquements (t) annuels de maquereau dans les sous-régions 2 à 6 de l'OPANO entre 2001 et 2016. Les débarquements canadiens de 2015 et 2016 sont préliminaires. Contrairement aux États-Unis, le Canada ne comptabilise pas les captures des pêches récréatives.

ANNÉE	CANADA	ÉTATS-UNIS		TOTAL
	Navires canadiens	Commercial	Récréatif	
2001	24 429	12 340	1 536	**38 305**
2002	34 662	26 530	1 294	**62 485**
2003	44 736	34 298	770	**79 804**
2004	53 777	54 990	473	**109 240**
2005	54 621	42 187	1 032	**97 840**
2006	53 649	56 640	1 511	**111 801**
2007	53 016	25 547	584	**79 147**
2008	29 671	21 734	783	**52 188**
2009	42 231	22 635	603	**65 470**

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2010	38 753	9 877	759	**49 388**
2011	11 400	531	932	**12 863**
2012	6 582	5 333	668	**12 487**
2013	8 663	4 372	887	**12 681**
2014	6 680	5 905	788	**13 373**
2015 [1]	4 143	5 616	1 157	**10 917**
2016 [1]	5 357	n/a	n/a	

[1] Préliminaire

Commentaire [DG1]: Ne serait-il pas plus logique de mettre le total à N/A (en fait, il n'est pas connu)

Des 4 143 t de maquereau capturées en eaux canadiennes en 2015, seulement 17 % (700 t) ont été débarquées à Terre-Neuve alors que cette proportion était en moyenne de 71 % de 2001 à 2010 et de 54 % depuis 2011. Par contre, en 2016, ce sont 4 513 t qui ont été débarquées à Terre-Neuve (soit plus de la moitié du TAC commercial), dont 1 710 t dans 4R et 2 803 t dans 3K, alors qu'il n'y avait pas eu de débarquements significatifs dans 3K depuis 2010 (Tableau 2). Les principaux engins de pêche utilisés en 2015 étaient la ligne à la main (avec 1 377 t sur 4 143 t), alors qu'en 2016 les engins majoritaires ont été la petite senne bourse avec 3 657 t.

Depuis plusieurs années, 40 % du TAC canadien est alloué aux grands senneurs et 60 % aux petits senneurs, à la senne "tuck" et aux engins fixes comme la trappe, le filet maillant, la ligne et la fascine. Dans le cas des grands senneurs, seulement 10 % de leur allocation a été capturée en 2015 et 3 % en 2016.

Tableau 2. Débarquements (t) annuels de maquereau par division de l'OPANO depuis 2001. Les débarquements de 2015 et 2016 sont préliminaires.

Commentaire [DG2]: Je suppose que le tableau sera corrigé dans la version finale.

DIVISION	ANNÉE															
ET RÉGION	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015 [1]	2
2J	0	0	0	0	0	0	0	0	0	0	0	78	4	0	0	
3K	322	6 566	588	16 360	24 024	19 176	8 768	9 125	6 898	12 916	426	129	191	6	208	
3L	10	3	0	59	4 068	7 960	10 673	4	39	830	61	3	0	25	54	
3O	0	0	0	0	0	0	27	0	0	0	0	0	0	0	0	
3P	273	162	149	79	238	266	354	166	5 387	5 541	1 544	149	26	246	0	
4R	8 375	11 251	25 938	23 885	14 141	16 874	24 782	13 741	21 913	13 871	5 306	2 261	4 909	3 155	438	
4S	16	2	0	0	35	76	19	23	64	123	107	304	245	20	29	
4T	12 316	14 484	14 324	9 152	9 424	7 785	5 763	5 439	6 815	4 919	3 549	2 866	2 748	2 389	2 242	
4V	125	308	60	13	126	224	370	111	55	7	2	150	146	143	58	
4W	248	115	9	59	36	75	59	63	65	129	18	177	17	220	186	
4X	2 743	1 771	3 669	4 169	2 529	1 304	1 928	1 000	980	416	389	365	241	340	682	
5YZ	0	0	0	0	0	0	0	0	16	0	0	0	0	0	245	
Non déterminé	0	0	0	0	0	0	652	0	0	0	0	100	137	135	0	
Plateau néo-écossais (4VWX5YZ)	**3 117**	**2 194**	**3 737**	**4 241**	**2 691**	**1 603**	**2 357**	**1 173**	**1 116**	**552**	**409**	**692**	**403**	**703**	**1 172**	
Golfe du Saint-Laurent (4RST)	**20 707**	**25 737**	**40 262**	**33 037**	**23 600**	**24 735**	**31 129**	**19 203**	**28 792**	**18 913**	**8 962**	**5 431**	**7 902**	**5 564**	**2 710**	

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Côtes est et sud de Terre-Neuve (2J3KLOP)	605	6 731	737	16 498	28 330	27 403	19 529	9 295	12 324	19 288	2 031	359	221	278	262
TOTAL	**24 429**	**34 662**	**44 736**	**53 777**	**54 621**	**53 741**	**53 394**	**29 671**	**42 231**	**38 753**	**11 400**	**6 582**	**8 663**	**6 680**	**4 143**

Prises non-déclarées

Les prises non-déclarées représentent une problématique importante dans la pêche au maquereau. En effet, une quantité importante de captures de la pêche commerciale vendues directement entre pêcheurs ainsi que de la pêche à l'appât utilisé pour usage personnel ne sont pas comptabilisées dans les statistiques du MPO. Les captures de la pêche récréative, qui est très populaire durant les mois d'été, ne sont pas comptabilisées non plus. Comme cette activité est pratiquée partout dans l'est du Canada par un très grand nombre de gens incluant les touristes – à quai ou à bord de navires nolisés et de façon quasi commerciale à certains endroits – les prises réelles de maquereau sont grandement sous-estimées. Depuis plusieurs années, les avis scientifiques sur le maquereau bleu comportaient une recommandation d'améliorer les statistiques de pêche dans leur ensemble, et d'effectuer une réflexion sur les façons d'estimer toutes ces captures.

Dans le cadre de la présente évaluation, la problématique des prises non-déclarées a d'abord été examinée à l'aide d'une synthèse des données disponibles sur les besoins en appât et sur les pêches récréatives. Les résultats de ces recherches ont permis d'estimer un maximum approximatif de captures non-déclarées pour chacune des régions et la manière dont ces captures ont pu varier au cours du temps. De plus, une enquête informelle sur Internet, à l'intention de tous les pêcheurs canadiens de maquereau, a permis d'obtenir de leur part une estimation approximative de la proportion de prises non déclarées (appâts, rejets et prises récréatives). L'étude a porté sur 476 répondants des 4 provinces de l'Atlantique et du Québec, qui ont pêché le maquereau pour l'appât ou à des fins récréatives ou commerciales (Van Beveren et al. 2017). Les résultats indiquent que plus de la moitié du maquereau utilisé comme appât en 2016 servait principalement pour la pêche au homard, mais également pour d'autres espèces dont le thon rouge (*Thunnus thynnus*), le crabe des neiges (*Chionoecetes opilio)* et le flétan atlantique (*Hippoglossus hippoglossus*). La pêche récréative, généralement à l'aide d'une ligne à main, peut également être pratiquée de manière semi-professionnelle avec des turluttes et des filets maillants, de sorte qu'elle ne doit pas être négligée. De plus, d'après les répondants, 1,9 % des captures ont été rejetées, principalement à cause de la petite taille des poissons.

Commentaire [DG3]: Quand *non* précède un nom, il est suivi d'un trait d'union ; quand il précède un adjectif, il n'y a pas de trait d'union.

Commentaire [DG4]: Pour faire simple : Placés devant un adjectif ou un nom, *demi* et *semi* sont invariables en genre et en nombre et se joignent par un trait d'union au nom ou à l'adjectif qu'ils accompagnent.

Les deux approches utilisées (synthèse des besoins en appât et sondage en ligne) suggèrent qu'en raison de l'utilisation d'appât, de la pêche récréative et des rejets, la capture totale de maquereau pourrait représenter de 150 % à 200 % des prises déclarées, et que ce rapport varie selon les provinces et au cours du temps.

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ÉVALUATION

Structure d'âge et fréquences de longueur des captures

La structure d'âge chez le maquereau est principalement influencée par l'arrivée périodique de classes d'âge dominantes. De telles classes d'âge, comme celles de 1967, 1974, 1982, 1988 et 1999 ont complètement dominé les captures commerciales pendant plusieurs années. Par exemple, les poissons de la classe d'âge de 1999 ont contribué jusqu'à 77 % de toutes les captures (en nombre) réalisées entre 2000 et 2004. L'abondance de cette classe d'âge a décliné rapidement à partir de 2004 et n'a pas persisté dans la population aussi longtemps que les fortes classes d'âge précédentes (Figure 3). Depuis, la pêche est plutôt caractérisée par une capture rapide de nouvelles classes d'âge de moyenne importance (p. ex. 2003, 2005, 2007, 2008 et 2010) et la structure d'âge au sein de la pêche s'est considérablement rétrécie depuis les années 2000 suite à la disparition des poissons de plus de 7 ans. Cependant, on observe une légère amélioration depuis 2013, avec une hausse d'abondance des maquereaux d'âge 5 et 6 (Figure 4).

Figure 3. Capture à l'âge dans la pêche commerciale (les classes d'âge dominantes sont indiquées par des flèches rouges). La taille des cercles est proportionnelle à l'abondance ces poissons.

Figure 4. Proportion des classes d'âge dans la pêche commerciale (les dates au-dessus des barres indiquent la progression des classes d'âge dominantes).

Les fréquences de longueur du maquereau sont caractérisées par la présence de modes principaux qui correspondent aux classes d'âge dominantes et se déplacent au cours du temps vers de plus grandes tailles. Ces modes sont observés dans les fréquences de longueur de tous les engins de pêche. Cependant, la première année de détection de ces classes d'âge dans les fréquences de longueur varie selon la sélectivité des engins de pêche et donc selon les régions. Pour l'année 2016, on observe dans 4R un pic de fréquence de poissons de petite taille, correspondant à des maquereaux de la classe d'âge de 2015 (Figure 5). Ce pic important pourrait indiquer qu'un fort recrutement a eu lieu en 2015, et constituer un signe avant-coureur de l'entrée d'une cohorte importante dans la pêche en 2017. Dans une moindre mesure, on observe aussi ce signal dans les captures de 4T, mais pas dans 3K et 4S.

Indicateurs biologiques

La proportion des poissons matures à l'âge a très peu varié au cours des ans. L'âge moyen à 50 % de maturité (A_{50}) était de 1,40 au cours des années 2000, et de 1,39 entre 2010 et 2015. Par contre, la longueur moyenne à 50 % de maturité (L_{50}) a considérablement varié au cours des ans (Figure 6). L_{50} a été supérieure à la taille minimale de capture autorisée de 250 mm pour la plupart des années de la période 1974–2013, ce qui suggère qu'une pression de pêche importante a été exercée sur les

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immatures. L'augmentation de la longueur minimale de capture autorisée de 250 à 263 mm, qui a pris effet en 2014, et l'application du protocole de petit poisson développé pour le maquereau, devraient permettre d'augmenter le potentiel reproducteur en diminuant cette pression. Suite à son augmentation au cours des dernières années, L_{50} s'est maintenue légèrement au-dessus de la longueur minimale de capture autorisée de 263 mm depuis 2013, ce qui indique que la limite actuelle reste appropriée.

Figure 5. Fréquence de longueur du maquereau capturé dans les divisions 3K, 4S, 4R et 4T en 2016.

Figure 6. Longueur à 50 % de maturité (moyennes annuelles avec intervalles de confiance à 95 %) du maquereau bleu des sous-régions 3-4 de l'OPANO depuis 1973 (la ligne horizontale indique la longueur minimale de capture autorisée, de 250 mm jusqu'en 2013 et de 263 mm à partir de 2014).

Relevé des œufs et indice d'abondance

L'abondance du maquereau est estimée à partir des données provenant d'un relevé des œufs qui se déroule annuellement sur le site de fraie principal dans le sud du golfe du Saint-Laurent. Lors des relevés réalisés en 2013 et 2014, les plus importantes densités d'œufs (n/m^2) ont été retrouvées dans le nord-ouest de la zone échantillonnée (Figure 7). En 2015 et 2016, la distribution des œufs était plus étendue, notamment vers le centre et le sud de la zone d'étude, sans toutefois pouvoir se comparer aux distributions très étalées observées dans les années 1990.

En tenant compte de la température de l'eau et du temps d'incubation, ainsi que du poids moyen et de la fécondité des femelles dans les échantillons biologiques, les densités d'œufs permettent le calcul d'un indice d'abondance de la biomasse reproductrice. Cet indice a augmenté de manière importante à trois reprises au cours des ans en raison de l'arrivée des classes d'âge dominantes de 1982, 1988 et 1999 (Figure 8). L'indice a présenté une chute importante entre 1993 et 1998 puis à nouveau après 2002, pour atteindre son niveau le plus bas en 2012 (14 568 t). Il a ensuite remonté lentement jusqu'à 52 667 t en 2016. Cette valeur reste très en deçà des indices d'abondance de plus de 750 000 t observés dans les années 1980.

Figure 7. Distribution des densités (n/m^2) d'œufs (stades 1 et 5) de maquereau mesurées lors des relevés dans le sud du golfe du Saint-Laurent de 2013 à 2016.

En 2015 et 2016, cinq relevés additionnels ont été menés dans les baies White et Notre-Dame, sur la côte nord-est de Terre-Neuve (3K), suite à des observations de jeunes maquereaux par l'industrie. Ces relevés, répétés à plusieurs reprises au cours de l'été, visaient à déceler d'éventuelles zones additionnelles de frai. Cependant, aucun signe de ponte du maquereau n'a été détecté dans les échantillons prélevés et la zone du sud du golfe reste donc la principale aire de frai prise en compte dans cette évaluation pour les

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sous-régions 3 et 4.

Figure 8. Indice d'abondance de la biomasse reproductrice du maquereau calculé selon la méthode de la Production Totale d'œufs, à partir des densités d'œufs observées dans le sud du golfe en juin.

Évaluation analytique

Les évaluations analytiques de 2012 et 2014 n'utilisaient que les prises déclarées et par conséquent, étaient soupçonnées de sous-estimer la taille réelle du stock de maquereau. Un nouveau modèle a été développé spécifiquement pour pallier à cette lacune dans le cas du maquereau bleu. Ce modèle statistique de prises à l'âge, dit « censuré » utilise une nouvelle approche dans laquelle les prises déclarées sont explicitement considérées biaisées, et inférieures aux prises totales réelles. La valeur des prises totales est estimée par le modèle en fonction des données d'abondance et de prises-à-l'âge. Pour ceci, il est nécessaire d'imposer une limite supérieure aux prises supplémentaires. Ces valeurs maximales pour les prises non-déclarées ont été informées, dans la mesure du possible, au moyen des informations disponibles sur l'industrie de la pêche à l'appât (et dont l'ordre de grandeur a été confirmé par les résultats du sondage en ligne).

Ce modèle « censuré », calibré par l'indice d'abondance des œufs et prenant en compte l'incertitude autour des prises non déclarées, confirme que la biomasse reproductrice du maquereau a décliné suite à des taux d'exploitation élevés dans les années 1990 et 2000, et a atteint son minimum historique en 2012 (20 000 t). Selon le modèle, la biomasse reproductrice a ensuite augmenté lentement, pour atteindre environ 40 000 t en 2016 (Figure 9a).

De plus, le modèle suggère que les prises supplémentaires (différence entre les prises totales estimées et les captures déclarées) se sont élevées à 6 000 t en moyenne au cours des 10 dernières années (Figure 9b).

Figure 9. a) Biomasse reproductrice du maquereau des sous-régions 3 et 4 de l'OPANO pour la période 1968–2013, estimée par un modèle statistique de prises à l'âge, dit « censuré »; ligne rouge pointillée : point de référence limite. b). Prises estimées pour les sous-régions 3 et 4 de l'OPANO. Ligne grise inférieure : limite inférieure du modèle censuré (= prises déclarées); ligne grise supérieure : limite supérieure (basée sur les besoins en appât et estimation des pêches récréatives); ligne noire : prises totales (déclarées + non-déclarées) estimées par le modèle.

Conformément au cadre canadien sur l'approche de précaution, le Point de Référence Limite (PRL) pour ce stock représente 40 % de la biomasse correspondant au rendement maximal soutenu (B_{rms}). Cependant, comme on n'observe pas de relation stock-recrutement claire pour ce stock pélagique, B_{rms} est basée sur une approximation à partir de $F_{40\%}$ tel qu'obtenu par une analyse de rendement par recrue. Selon le modèle statistique, le PRL serait égal à 103 000 t, et le stock se situerait donc en 2016 à 40 % du PRL.

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Des projections sur trois ans ont été réalisées à partir du modèle censuré afin d'estimer les impacts de différents scénarios de captures totales (déclarées + non-déclarées) pour 2017 et 2018. Ces projections utilisent les paramètres moyens des trois dernières années (ex : poids-à-l'âge, maturité) et un recrutement aléatoire (qui ne considère pas la possibilité d'un évènement de recrutement ~~extrême~~extrême). Entre autres, ces projections suggèrent que la probabilité d'une augmentation de la biomasse est supérieure à 80 % pour des niveaux de captures totales inférieurs à 14 000 t par année (Tableau 3). Le choix du TAC commercial doit tenir compte de l'incertitude quant au niveau réel des prises non-déclarées, dont la quantité exacte est inconnue, mais qui sont estimées par le modèle à environ 6 000 t par année pour la période 2011 – 2016. Ainsi, un TAC de 8 000 t (statu quo) résulterait en une probabilité de croissance de la biomasse de 81 % et une probabilité d'atteindre le PRL de 30 % d'ici 2019, en assumant des captures non-déclarées de l'ordre de 6 000 t en 2017 et en 2018.

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Tableau 3. Projections de la biomasse reproductrice (B.R.) et du taux d'exploitation du stock de maquereau en fonction de différents scénarios de prises totales (déclarées + non-déclarées), réalisées à partir du modèle statistique de prises à l'âge, dit « censuré ». Pour 2019, le tableau indique la probabilité de croissance (B.R. supérieure à celle de 2016) et la probabilité de dépasser le PRL de 103 000 t.

Prises déclarées + non déclarées (t)		2017		2018		2019		
2017	2018	B.R. (t)	Taux exp.	B.R. (t)	Taux. Exp.	B.R. (t)	Prob. > 2016	Prob. > PRL
0	0	48 283	0,00	77 164	0,00	113 886	0,95	0,56
4 000	4 000	48 283	0,08	72 175	0,06	103 378	0,93	0,50
6 000	6 000	48 283	0,13	68 503	0,09	96 927	0,92	0,46
8 000	8 000	48 283	0,17	64 910	0,12	90 889	0,89	0,42
10 000	10 000	48 283	0,21	62 762	0,16	85 686	0,87	0,40
12 000	12 000	48 283	0,25	59 466	0,21	77 143	0,84	0,34
14 000	14 000	48 283	0,29	56 858	0,24	72 189	0,81	0,30
16 000	16 000	48 283	0,33	54 018	0,29	66 158	0,77	0,26
18 000	18 000	48 283	0,38	50 928	0,36	57 113	0,70	0,20
20 000	20 000	48 283	0,42	47 502	0,42	51 348	0,64	0,17
24 000	24 000	48 283	0,50	41 704	0,59	35 728	0,44	0,09
30 000	30 000	48 283	0,62	33 053	0,90	17 199	0,16	0,02

Sources d'incertitude

Les captures non-rapportées de la pêche à l'appât et des pêches récréatives constituent toujours une importante source d'incertitude dans l'évaluation du stock de maquereau. Le développement et l'utilisation d'un modèle statistique « censuré » qui prend en compte l'incertitude entourant les captures permet de proposer une estimation plus réaliste des captures totales, de la biomasse reproductrice et du taux d'exploitation du stock. Cependant, cet outil statistique ne permet pas de prédire les prises non-déclarées futures et ne se substitue en rien au besoin impératif de mieux comptabiliser les prises totales dans la pêche au maquereau.

Les rejets de petits maquereaux dont la longueur est sous la taille minimale de capture autorisée (263 mm) représentent également un problème. L'étendue des rejets et l'impact de cette activité sur l'abondance des classes d'âges à des âges plus avancés sont difficiles à quantifier.

Il existe plusieurs lacunes dans le programme d'échantillonnage biologique de la pêche commerciale, notamment dans le sud du golfe et dans les Maritimes. Le faible nombre d'échantillons disponibles dans ces régions, particulièrement en période pré-reproduction, limite notre capacité à décrire la période de ponte et la condition des poissons, ce qui peut avoir des impacts sur le calcul de l'indice d'abondance tiré du relevé des œufs.

Lorsque survient un épisode important de recrutement, il est difficile de le détecter dans les données scientifiques (échantillonnage de la pêche, relevé des œufs) avant que la cohorte correspondante n'ait atteint l'âge de 2 ans. Cependant, un pic de fréquence de poissons de petite taille, correspondant à des maquereaux de la classe d'âge de 2015, a été observé dans la pêche de 4R en 2016. De plus, environ la moitié des pêcheurs qui ont répondu au sondage en ligne ont indiqué que le petit maquereau était très abondant en 2016. Ces signaux pourraient indiquer que le recrutement en 2015 a été plus

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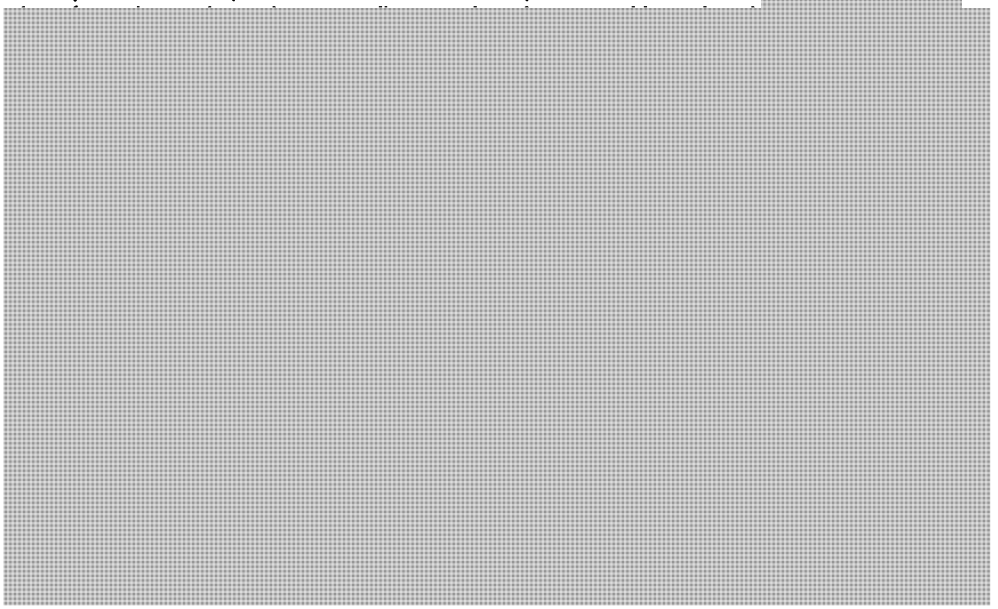
important que ceux observés dans les années récentes.

CONCLUSIONS ET AVIS

L'avis scientifique précédent (2014) était biaisé parce qu'il n'incluait pas d'estimations des captures non-déclarées. L'avis présent inclut les meilleures estimations possibles des captures non-déclarées en utilisant un nouveau modèle statistique, et propose donc une estimation plus réaliste de la biomasse reproductrice.

Selon les résultats de cette évaluation, le stock de maquereau bleu dans les sous-régions 3 et 4 a atteint son plus bas niveau historique en 2012. Le modèle statistique suggère que les niveaux de capture des dernières années ont permis une croissance lente de 2013 à 2016

Des projections qui tiennent compte des captures non déclarées suggèrent que la probabilité d'une augmentation de la biomasse est supérieure à 80 % pour des niveaux de captures totales (déclarées + non déclarées) inférieurs à 14 000 t.



De plus, il est particulièrement important de pallier aux lacunes dans l'échantillonnage de la pêche commerciale dans certains secteurs, d'accélérer la compilation des statistiques de débarquements et d'améliorer la collecte des données sur les prises non-déclarées.

SOURCES DE RENSEIGNEMENTS

Le présent avis scientifique découle de la réunion régionale du 8 au 9 mars 2017 sur l'évaluation du stock de maquereau bleu des des sous-régions 3 et 4. Toute autre publication découlant de cette réunion sera publiée, lorsqu'elle sera disponible, sur le

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calendrier des avis scientifiques de Pêches et Océans Canada.

MPO. 2014. Évaluation du stock de maquereau bleu du nord-ouest de l'Atlantique (sous-régions 3 et 4) en 2013. Secr. can. de consult. sci. du MPO, Avis sci. 2014/030.

Van Beveren, E., Castonguay, M., Doniol-Valcroze, T., and Duplisea, D. 2017. Results of an informal survey of Canadian Atlantic mackerel commercial, recreational and bait fishers. DFO Can. Sci. Advis. Sec. Res. Doc. 2017/029. v + 26 p.

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Centre des avis scientifiques (CAS)
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MPO. 2017. Évaluation du stock de maquereau bleu du nord-ouest de l'Atlantique (sous-régions 3 et 4) en 2016. Secr. can. de consult. sci. du MPO, Avis sci. 2017/nnn.

Also available in English:

DFO. 2017. Assessment of the Atlantic Mackerel Stock for the Northwest Atlantic (Subareas 3 and 4) in 2016. DFO Can. Sci. Advis. Sec. Sci. Advis. Rep. 2017/nnn.

Pages 3198 to / à 3199

are duplicates

sont des duplicatas

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Cyr, Charley

De: Doniol-Valcroze, Thomas
Envoyé: 29 mai 2017 14:27
À: Cyr, Charley
Objet: RE: Révision de l'avis sur le maquereau
Pièces jointes: AS_maquereau2017-fra.docx

Charley,

J'ai vérifié et intégré les commentaires de Dominique, et j'ai rajouté dans la conclusion un paragraphe sur l'approche de précaution qui permet de mettre en contexte le besoin d'avoir >75% de probabilité de croissance dans les scénarios de gestion retenus.

Dis-moi si tu penses que cela suffit. Il semblerait que ce soit de toutes façons la philosophie retenue par la gestion des pêches.

Thomas

De : Cyr, Charley
Envoyé : 17 mai 2017 16:42
À : Doniol-Valcroze, Thomas
Cc : Castonguay, Martin
Objet : TR: Révision de l'avis sur le maquereau

Bonjour Thomas,

J'ai reçu les commentaires de Dominique sur l'avis scientifique. J'ai fait les corrections grammaticales dans l'avis, mais il reste un commentaire plus substanciel dans la conclusion. Est-ce que tu peux vérifier svp. Je joins également la copie avec les figures.

Charley Cyr
Directeur
DAISS
(418) 775-0825
Charley.Cyr@dfo-mpo.gc.ca

De : Dominiquie Gascon [mailto:dominique.gascon@globetrotter.net]
Envoyé : 17 mai 2017 16:23
À : Cyr, Charley
Objet : RE: Révision de l'avis sur le maquereau

Le premier envoi a été bloqué (message trop gros); j'ai ôté les images, ce qui devrait aider.

Voilà mes commentaires (j'ai transformé le fichier en RTF parce que le logiciel qui ouvrait ta version ne me permettait pas d'éditer à mon goût). Des corrections grammaticales et d'erreurs typographiques surtout (j'ai clarifié pour mon profit (et le vôtre) la règle du non + adjectif).

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Un seul commentaire plus substantiel à la fin sur la formulation de l'avis; j'espère que c'est clair, sinon vous pouvez m'appeler; je suis généralement disponibles les matins.

Dominique

De : Cyr, Charley [mailto:Charley.Cyr@dfo-mpo.gc.ca]
Envoyé : 9 mai 2017 08:29
À : Dominique Gascon
Objet : Révision de l'avis sur le maquereau

Bonjour Dominique,

J'espère que ça va bien de ton côté?
Nous avons reçu l'avis sur le maquereau.
Est-ce que tu pourrais le réviser avant approbation régionale svp?

Merci

Charley Cyr

Directeur, Avis, Informations et soutien scientifiques
Direction régionale des Sciences
Pêches et Océans Canada / Gouvernement du Canada
charley.cyr@dfo-mpo.gc.ca / Tél.: 418-775-0825

Director, Scientific Advices, Informations and Support
Science Regional Branch
Fisheries and Oceans Canada / Government of Canada
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Ma langue, une question de respect
My language, a matter of respect

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Available online: http://www.dfo-mpo.gc.ca/csas-sccs/Publications/SAR-AS/2017/2017_034-fra.pdf

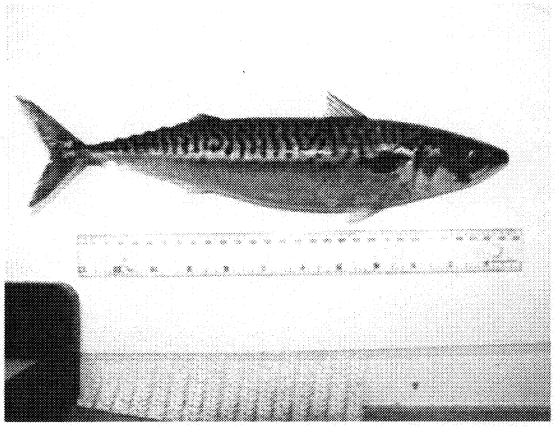
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Sciences des écosystèmes et des océans | Ecosystems and Oceans Science

Région du Québec

Secrétariat canadien de consultation scientifique
Avis scientifique 2017/nnn

ÉVALUATION DU STOCK DE MAQUEREAU BLEU DU NORD-OUEST DE L'ATLANTIQUE (SOUS-RÉGIONS 3 ET 4) EN 2016



(Courtoisie: M. Claude Nozères)



Figure 1. Distribution (←) du maquereau (Scomber scombrus L.) dans le nord-ouest de l'Atlantique.

Contexte :

Le maquereau bleu (Scomber scombrus L.) fréquente les eaux de l'Atlantique Nord-Ouest de la Caroline du Nord à Terre-Neuve (Figure 1). Au printemps et à l'été, le maquereau fréquente les eaux côtières. Tard à l'automne et à l'hiver, on le retrouve en profondeur dans les eaux plus chaudes de la marge du plateau continental. Son aire de distribution est caractérisée par la présence de deux zones de ponte. En eaux canadiennes, la ponte se déroule principalement dans le sud du golfe du Saint-Laurent en juin et juillet. En eaux américaines, la ponte se produit entre les côtes du Rhode Island et de la Virginie au cours des mois de mars et avril.

Dans les provinces maritimes, à Terre-Neuve et au Québec (sous-régions 3 et 4 de l'OPANO), plusieurs milliers de pêcheurs commerciaux pratiquent la pêche au maquereau bleu. Celle-ci se déroule généralement près des côtes à l'aide du filet maillant, de la turlutte, de la ligne à la main, de la senne et de la trappe, selon la région et la période de l'année. Au cours des années 1980 et 1990, les débarquements des pêcheurs canadiens ont été stables avec une moyenne de 22 000 t par année. Cependant, une hausse importante s'est produite au début des années 2000 avec un maximum historique de 54 621 t en 2005. Les débarquements moyens de la période 2006-2010 ont été de 43 464 t. Ils ont été suivis d'une chute importante jusqu'à un minimum historique de 4 134 t en 2015.

Les débarquements canadiens de maquereau sont sous-estimés à cause de la pêche d'appât non-déclarée. De plus, les prises de la pêche récréative, qui se déroule au cours des mois d'été le long de la côte atlantique, ne sont pas rapportées, tout comme les rejets de petits maquereaux.

La dernière évaluation du contingent canadien de maquereau remonte à mars 2014. La Direction de la gestion des pêches et de l'aquaculture a sollicité un avis scientifique concernant le contingent canadien de maquereau pour les saisons 2017 et 2018.

Mai 2017

Canada

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s.16(2)

Thomas, Tashina

From: Lapierre, Daniel
Sent: May-17-17 8:30 AM
To: Lemay, Gaëlle
Cc: Smith, Jennifer R (Gulf); Gaudet, Mario; Thomas, Tashina; Mallet, Pierre
Subject: FW: Mackerel Commercial fishery - Data entry procedures update / Pêche commerciale au Maquereau - Mise à jour des procédures d'entrées de données

FYI

From: Lapierre, Daniel
Sent: 2017–May-17 8:28 AM
To: Atlantic Catch Data; Cheticamp Monitoring ; Island Weigh 95 Inc.; Pèse-Pêche Inc.; Sea Tracker Dockside Monitoring; Seefish Dockside Monitors
Subject: Mackerel Commercial fishery - Data entry procedures update / Pêche commerciale au Maquereau - Mise à jour des procédures d'entrées de données

A French message will follow

Hi,

The following is to remind all DMC's of some key procedures that **must** be followed when entering data in GFIS for the mackerel commercial fishery.

Please note that data's will be collected the same way for monitored and non-monitored mackerel landings, with the only difference being that dockside monitoring company will **not** check the "*Monitored Landing*" checkbox on the *DMC Catch Notification* screen for non-monitored landings. For non-monitored mackerel landings, the estimated weight provided by the fisher at Hail-In **should be entered in both** the HAIL and ACTUAL weights fields.

Please contact me should you have any questions.

Best

Daniel Lapierre

Dockside Monitoring and At Sea Observer Programs Coordinator
Fisheries and Oceans – Gulf Region/Government of Canada
daniel.lapierre@dfo-mpo.gc.ca / Tel : 506-851-6214 / Cell: [redacted] / Fax : 506-851-2504

Coordonnateur des Programmes de vérification à quai et d'observateur en mer
Pêches et Océans Canada – Région du Golfe/Gouvernement du Canada
daniel.lapierre@dfo-mpo.gc.ca / Tél : 506-851-6214 / Mobile: [redacted] / Télécopieur : 506-851-2504

****

Bonjour,

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s.16(2)

Ce qui suit est un rappel aux PVQ de certaines procédures clés qui **doivent** être observés lorsque des entrées de données sont complétées dans SIPG pour la pêche commerciale du maquereau.

Veuillez donc prendre note que les données seront collectées de la même manière pour les déchargements de maquereaux vérifiés et non vérifiés, la seule différence étant que la compagnie de vérification à quai **ne doit pas** cocher la case "*Déchargement Vérifié*" sur l'écran *Avis de Capture du CVQ* pour les déchargements non vérifiés. Pour les déchargements de maquereaux non vérifiés, le poids estimé fourni par le pêcheur lors de *l'Appel en Mer* **doit être inscrit** dans les champs de poids ESTIMÉ et COURANTE.

Prière de bien vouloir me contacter si vous avez des questions.

Salutations

Daniel Lapierre

Dockside Monitoring and At Sea Observer Programs Coordinator
Fisheries and Oceans – Gulf Region/Government of Canada
daniel.lapierre@dfo-mpo.gc.ca / Tel : 506-851-6214 / Cell: [redacted] Fax : 506-851-2504

Coordonnateur des Programmes de vérification à quai et d'observateur en mer
Pêches et Océans Canada – Région du Golfe/Gouvernement du Canada
daniel.lapierre@dfo-mpo.gc.ca / Tél : 506-851-6214 / Mobile: [redacted] / Télécopieur : 506-851-2504

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Beamish, Kayla

From: Cawthray, Jenness
Sent: May 18, 2017 2:13 PM
To: Beamish, Kayla
Subject: RE: ML_Mackerel_TAC.docx

The spokesperson or the TAC?

From: Beamish, Kayla
Sent: May-18-17 12:41 PM
To: Cawthray, Jenness
Subject: RE: ML_Mackerel_TAC.docx

Hi Jenness,
Heard in a DG meeting this morning that this might change a bit – is that true? Should I hold on moving the lines through approvals if they'll need to be updated?

From: Cawthray, Jenness
Sent: May 18, 2017 8:16 AM
To: Beamish, Kayla
Subject: RE: ML_Mackerel_TAC.docx

Adam Burns

From: Beamish, Kayla
Sent: May-17-17 3:41 PM
To: Cawthray, Jenness
Subject: RE: ML_Mackerel_TAC.docx

Hey again – can you please confirm who the spokes would be for mackerel? Is it Adam Burns?
May have asked you this before...I'm losing my mind.

From: Cawthray, Jenness
Sent: May 17, 2017 3:31 PM
To: Marentette, Julie; Beamish, Kayla
Cc: Krohn, Martha; Landry, Jean; Lester, Brian
Subject: RE: ML_Mackerel_TAC.docx

Thank you Julie.
Kayla, I suggest you finalize the lines and move through approvals as the memo is in MINO.
Thank you!
Jenness

From: Marentette, Julie
Sent: May-17-17 3:28 PM
To: Beamish, Kayla
Cc: Cawthray, Jenness; Krohn, Martha; Landry, Jean
Subject: RE: ML_Mackerel_TAC.docx

Hi Kayla and Jenness,

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The bullet could be reworded as:

- The established harvest level allows for a greater than 75% probability that the stock biomass will continue to increase at the established harvest level. This corresponds to a high probability of growth and reflects the Department's commitment to the Precautionary Approach. Specifically, with commercial TAC of 10,000t [redacted] taking into account improved catch monitoring in the fishery.

Although not a Science bullet, I would also suggest that this bullet...

- The Department has initiated a DFO/ industry rebuilding plan working group for this stock that will meet over the coming year to develop a plan for consideration by the Atlantic Mackerel Advisory Committee.

Could be reworded to include additional info from the memo:

- The Department has initiated a DFO/ industry rebuilding plan working group for this stock that will meet over the coming year to develop a plan for consideration by the Atlantic Mackerel Advisory Committee to support rebuiliding the stock into the Healthy Zone of the Precautionary Approach Framework.

Let me know if this is still unclear, thanks!

Best regards,

Julie Marentette, Ph.D.

Science Advisor, Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Julie.Marentette@dfo-mpo.gc.ca /Tel: 613-943-2098

Conseillère scientifique, Sciences des populations halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Julie.Marentette@dfo-mpo.gc.ca /Tél: 613-943-2098

From: Beamish, Kayla
Sent: May-17-17 11:37 AM
To: Marentette, Julie
Cc: Cawthray, Jenness
Subject: RE: ML_Mackerel_TAC.docx
Importance: High

Hi Julie,

Just gave you a shout to discuss – let me know if you have any questions or concerns about the lines.
Also wondering if there's a way to simplify that bullet in the email trail. Maybe there isn't but I'm just thinking if someone asks me about it as I move these through approvals I will be like a deer in headlights!

Thanks!
Kayla

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s.21(1)(b)

From: Cawthray, Jenness
Sent: May 17, 2017 10:18 AM
To: Marentette, Julie; Beamish, Kayla
Cc: Lester, Brian
Subject: FW: ML_Mackerel_TAC.docx
Importance: High

Hi Julie, Kayla
Any suggestions on this from a science perspective? I think it is important to keep this sentence as is.
Kayla, we should also have science (Julie) review these lines.
The memo is currently in the Minister's office.
Let me know if there is anything else you need.
Thanks,
Jenness

From: Beamish, Kayla
Sent: May-10-17 12:12 PM
To: Cawthray, Jenness
Subject: RE: ML_Mackerel_TAC.docx

Hi Jenness,

Thanks for the edits – I think these may be the ones Brian shared with me a little while back...either way this new version has been saved to my folders here. Still no update on timing for this one I suppose (given the "May ? TBC" in the issue section). Do we have a ballpark?

My non-program brain is having trouble digesting this one. Is there a simpler way to say this?

- The established harvest level meets the Department's commitment to the Precautionary Approach in that there is a greater than 75% probability that the stock biomass will continue to increase at the established harvest level. Specifically, with commercial TAC of 10,000t [redacted] taking into account improved catch monitoring in the fishery.

Also wondering who spokes is for this one. Listed as TBC for now.

Thanks!
Kayla

From: Cawthray, Jenness
Sent: May 10, 2017 10:56 AM
To: Beamish, Kayla
Subject: ML_Mackerel_TAC.docx
Importance: High

Hi Kayla!

Please see attached media lines for TAC and updated memo. The memo should move quickly though approvals (hopefully).
Can review the media lines? Clean them up and send a copy back to Brian and I for a quick review.
Thanks!

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Jenness Cawthray
Senior Fisheries and Aquaculture Management Officer |
Agent principal, Gestion des pêches et de l'aquaculture
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Government of Canada | Gouvernement du Canada

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Smith, Kathleen

From: Walker-Sisttie, Rhonda
Sent: May-18-17 6:17 PM
To: ComApproval / Approbation (DFO/MPO)
Cc: Stanek, Frank; Smith, Kathleen
Subject: RE: PROCEED WITH DOCKET: ML : Mackerel - Management Decision 2017

Yes, thanks

From: ComApproval / Approbation (DFO/MPO)
Sent: Thursday, May 18, 2017 5:21 PM
To: Walker-Sisttie, Rhonda <Rhonda.Walker-Sisttie@dfo-mpo.gc.ca>
Cc: Stanek, Frank <Frank.Stanek@dfo-mpo.gc.ca>; Smith, Kathleen <Kathleen.Smith@dfo-mpo.gc.ca>
Subject: PROCEED WITH DOCKET: ML : Mackerel - Management Decision 2017

Hi Rhonda,

Can we proceed with this docket?
<< File: ML_Mackerel_TAC.docx >>
Thank you,

Elise

From: Kayla.Beamish@dfo-mpo.gc.ca [mailto:Kayla.Beamish@dfo-mpo.gc.ca]
Sent: May-18-17 4:56 PM
To: ComApproval / Approbation (DFO/MPO)
Subject: HQ : ML : Mackerel - Management Decision 2017

Region:
Headquarters

Sector(s) Involved:
Ecosystems and Fisheries Management

Products:
Media Lines

Product linked to Major Initiative?
No

Topic:
Mackerel - Management Decision 2017

Responsible Comm. Officer/Author Name:
Kayla Beamish

Sender's Email:
Kayla.Beamish@dfo-mpo.gc.ca

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Date due by:
2017-05-24

Date to be released:
2017-05-24

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Frank Stanek (A/Dir) Adam Burns Sylvie Lapointe Rhonda Walker-Sisttie Anne Lamar DMO MO

C.C. (electronic):
Brian Lester Martha Krohn Jennifer Northcott

Additional instructions:
DFO will announce the 2017 Total Allowable Catch (TAC) decision for the Atlantic Mackerel fishery before the end of May (TBC) - could be announced at any point. The 2017 decision will be an increase from the 2016 TAC, and will include increased reporting requirements (which is likely to reduce undeclared/unreported). The decision may result in a negative reaction from stakeholders (industry, Indigenous groups, and Ecology Action Center.

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Krohn, Martha

From: Krohn, Martha
Sent: May-19-17 2:25 PM
To: Northcott, Jennifer; Landry, Jean; Marentette, Julie
Subject: Re: 233/17 HQ-ML: ATLANTIC MACKEREL TOTAL ALLOWABLE CATCH 2017

Categories: Red Category

Hello jean,
Yes julie provided mine and her combined input to jenness.

Thanks,
Martha

Sent from my BlackBerry 10 smartphone on the Rogers network.

From: Northcott, Jennifer
Sent: Friday, May 19, 2017 2:16 PM
To: Landry, Jean
Cc: Krohn, Martha
Subject: FW: 233/17 HQ-ML: ATLANTIC MACKEREL TOTAL ALLOWABLE CATCH 2017

Hi Jean:

The mackerel lines are moving through approvals in EFM. Please let me know if you have any comments. I understand that Martha provided comments already. It is not going through science for formal approval, but if you think it should, please let me know.

Jennifer

From: ComApproval / Approbation (DFO/MPO)
Sent: May-19-17 12:16 PM
To: Beamish, Kayla
Cc: Walker-Sisttie, Rhonda; Horgan, Carole; Nielsen, Ingrid; Smith, Kathleen; Lester, Brian; Krohn, Martha; Northcott, Jennifer; Stanek, Frank
Subject: CC: 233/17 HQ-ML: ATLANTIC MACKEREL TOTAL ALLOWABLE CATCH 2017

Bonjour,

This electronic copy is for your information only. The hard copy is going through approvals in a Communications red docket.

Cette copie électronique est pour votre information seulement. La copie papier circule pour approbation dans un dossier rouge de la Direction des communications.

ATLANTIC MACKEREL TOTAL ALLOWABLE CATCH 2017
MEDIA LINES

Thanks!

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Elise Grundy
Communications Branch/ Direction générale des communications
613-949-9105 | facsimile/télécopieur 613-993-8277
elise.grundy@dfo-mpo.gc.ca
Fisheries and Oceans Canada | 200 Kent St. Ottawa, ON K1A 0E6
Pêches et Océans Canada | 200, rue Kent Ottawa, ON K1A OE6
Government of Canada | Gouvernement du Canada

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Krohn, Martha

From: Landry, Jean
Sent: May-19-17 1:54 PM
To: de Lafontaine, Yves
Cc: Marentette, Julie; Krohn, Martha; Duprey, Nicholas
Subject: Fw: Mino briefing on mackerel

Categories: Red Category

Mise à jour.

Sent from my BlackBerry 10 smartphone on the Rogers network.

From: Burns, Adam <Adam.Burns@dfo-mpo.gc.ca>
Sent: Friday, May 19, 2017 1:08 PM
To: Landry, Jean
Cc: McPherson, Arran; Northcott, Jennifer
Subject: Re: Mino briefing on mackerel

Yes we are. Brian is finalizing a draft deck now. No news on announcement.

Sent from my BlackBerry 10 smartphone on the Rogers network.

From: Landry, Jean
Sent: Friday, May 19, 2017 7:06 AM
To: Burns, Adam
Cc: McPherson, Arran; Northcott, Jennifer
Subject: TR: Mino briefing on mackerel

The French version of the Science deck has been shared with the region yesterday in order for Yves' team to review and finalize the deck. Any news about a decision on mackerel and a potential date for the technical media briefing? Are you preparing a deck for the management aspects?

Jean

Jean Landry
Director , Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Jean.Landry@dfo-mpo.gc.ca / Tel: 613-993-0029

Directeur, Sciences halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Jean.Landry@dfo-mpo.gc.ca / Tél. : 613-993-0029

Government of Canada / Gouvernement du Canada

Canada

De : Landry, Jean
Envoyé : 18 mai 2017 14:49
À : de Lafontaine, Yves <Yves.deLafontaine@dfo-mpo.gc.ca>
Cc : Krohn, Martha <Martha.Krohn@dfo-mpo.gc.ca>
Objet : TR: Mino briefing on mackerel

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s.16(2)

On a reçu la version française de la présentation.

Jean Landry
Director , Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Jean.Landry@dfo-mpo.gc.ca / Tel: 613-993-0029

Directeur, Sciences halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Jean.Landry@dfo-mpo.gc.ca / Tél. : 613-993-0029

Government of Canada / Gouvernement du Canada

Canada

De : Boudreau, Carol-Ann
Envoyé : 18 mai 2017 13:52
À : Landry, Jean <Jean.Landry@dfo-mpo.gc.ca>
Cc : Krohn, Martha <Martha.Krohn@dfo-mpo.gc.ca>
Objet : FW: Mino briefing on mackerel

Voilà!

From: Landry, Jean
Sent: May-17-17 5:49 AM
To: Boudreau, Carol-Ann
Cc: Krohn, Martha
Subject: Fw: Mino briefing on mackerel

Can you send to translation. Deadline should be COB tomorrow. Merci
Jean

Sent from my BlackBerry 10 smartphone on the Rogers network.

From: de Lafontaine, Yves <Yves.deLafontaine@dfo-mpo.gc.ca>
Sent: Tuesday, May 16, 2017 6:39 PM
To: Landry, Jean; White, Andrea
Cc: Doniol-Valcroze, Thomas; Gilbert, Michel
Subject: TR: Mino briefing on mackerel

Jean,

I don't have a French version because we were waiting for final approval of the deck before translation. I suggest you get the deck translated and we can double-check the translation here (Thomas and Michel in cc can handle it).

Yves de Lafontaine

Directeur, Institut Maurice Lamontagne
Directeur, Direction régionale des Sciences
Pêches et Océans Canada / Gouvernement du Canada
Yves.delafontaine@dfo-mpo.gc.ca Tél. : 418-775-0555 / tél. cell. : [redacted]

Director, Maurice Lamontagne Institute

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s.16(2)

Director, Sciences regional directorate
Fisheries and Oceans Canada / Government of Canada
Yves.delafontaine@dfo-mpo.gc.ca Tel : 418-775-0555 / Cel. : [redacted]

J'ai 30 ans / I'm 30 years old
INSTITUT MAURICE-LAMONTAGNE
MAURICE LAMONTAGNE INSTITUTE

De : Landry, Jean
Envoyé : 16 mai 2017 12:23
À : White, Andrea <Andrea.White@dfo-mpo.gc.ca>; de Lafontaine, Yves <Yves.deLafontaine@dfo-mpo.gc.ca>
Cc : Krohn, Martha <Martha.Krohn@dfo-mpo.gc.ca>; Marentette, Julie <Julie.Marentette@dfo-mpo.gc.ca>; Burns, Adam <Adam.Burns@dfo-mpo.gc.ca>; Lester, Brian <Brian.Lester@dfo-mpo.gc.ca>; Northcott, Jennifer <Jennifer.Northcott@dfo-mpo.gc.ca>; Perron, Heloise <Heloise.Perron@dfo-mpo.gc.ca>
Objet : TR: Mino briefing on mackerel

Andy,

Attached is the draft deck for the potential technical media briefing on mackerel. Below Martha has provided few suggestions to Quebec Science's team. You may want to provide this deck to Arran when she is back. I have no major flag to raise about this deck. As discussed with Brian this morning, I take the opportunity of this email to share this **draft** deck with our EFM colleagues at HQ as I understand that they may want to prepare a deck covering the management aspects as part of this briefing (to be confirmed with EFM). I also CC our colleagues from COMM.

Next steps:

- Would be important to get some intel from yesterday's Min briefing on mackerel. Is this still the plan to conduct such briefing and if so, when and where? On this matter, Yves and I had a preliminary chat on the location and Halifax was mentioned as an option (one technical briefing in French and English in one location). Can you please check with ADMO about the next steps as Yves' team will need to know and plan accordingly. Adam: any thoughts on this?

Yves: Est-ce que tu as une version française en préparation? Sinon, on peut s'en occuper ici. Tu n'as qu'à m'expédier la version finale anglaise et on procédera. Nous t'expédierons la version française pour validation par ton équipe.

Jean

Jean Landry
Director , Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Jean.Landry@dfo-mpo.gc.ca / Tel: 613-993-0029

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Pêches et Océans Canada / Gouvernement du Canada
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Government of Canada / Gouvernement du Canada

Canada

De : Krohn, Martha
Envoyé : 15 mai 2017 16:30
À : Doniol-Valcroze, Thomas <Thomas.Doniol-Valcroze@dfo-mpo.gc.ca>; Castonguay, Martin <Martin.Castonguay@dfo-mpo.gc.ca>
Cc : Gilbert, Michel <Michel.Gilbert@dfo-mpo.gc.ca>; Landry, Jean <Jean.Landry@dfo-mpo.gc.ca>; Marentette, Julie <Julie.Marentette@dfo-mpo.gc.ca>
Objet : RE: Mino briefing on mackerel

Hi Thomas and Martin,

The presentation looks great, looks like the right level for a media briefing. I am sure the will be very interested. A couple small points for your consideration from myself and Julie:

Slide 12: the official English translation of summary bullets used "facilitate" recovery ("maximize" recovery would be no fishing?)
Slide 3: typo, additional should have one n
Slide 5: Is it worth mentioning that some undeclared mackerel may also be caught by the American fishery? This is mentioned on slide 3 so maybe don't need to point it out twice.

Would you have the decision table handy at the media briefing in case there are questions about probabilities of growth for other TAC levels?

Jean may have something to add.

Merci!
Martha

From: de Lafontaine, Yves
Sent: May-12-17 11:11 AM
To: Landry, Jean; Krohn, Martha
Cc: Vincent, Patrick; Doniol-Valcroze, Thomas; Castonguay, Martin; Gilbert, Michel
Subject: TR: Mino briefing on mackerel

Bonjour Martha et Jean,

Voici la dernière version du deck de breffage pour le maquereau ajusté en fonction des scénarios de TAC à 10,000 t. En cas de questions, n'hésitez pas à appeler.
Martin et Thomas sont en route aujourd'hui de retour des USA et seront disponibles lundi matin pour toute discussion du dossier.

Yves de Lafontaine

Directeur, Institut Maurice Lamontagne
Directeur, Direction régionale des Sciences
Pêches et Océans Canada / Gouvernement du Canada
Yves.delafontaine@dfo-mpo.gc.ca Tél. : 418-775-0555 / tél. cell. : [redacted]

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Director, Maurice Lamontagne Institute
Director, Sciences regional directorate
Fisheries and Oceans Canada / Government of Canada
Yves.delafontaine@dfo-mpo.gc.ca Tel : 418-775-0555 / Cel. : s.16(2)

J'ai 30 ans / I'm 30 years old
INSTITUT MAURICE-LAMONTAGNE
MAURICE LAMONTAGNE INSTITUTE

De : Gilbert, Michel
Envoyé : 12 mai 2017 10:59
À : Doniol-Valcroze, Thomas <Thomas.Doniol-Valcroze@dfo-mpo.gc.ca>; Castonguay, Martin <Martin.Castonguay@dfo-mpo.gc.ca>
Cc : Racine, Sylvi <Sylvi.Racine@dfo-mpo.gc.ca>; de Lafontaine, Yves <Yves.deLafontaine@dfo-mpo.gc.ca>; Landry, Jean <Jean.Landry@dfo-mpo.gc.ca>
Objet : RE: Mino briefing on mackerel

Merci Thomas !

Nous avons quelques petites corrections mineurs (éditoriales) et Yves va la transférer à Jean Landry sous peu. Prenez note que mon message ce matin ne contenait pas la bonne présentation et j'ai rectifié le tir avec Yves. Toutes mes excuses !

Prenez note enfin qu'il y aura un appel avec le ministre sur cette question lundi matin à 9h30 et il est crucial que toi et/ou Martin soyez présents au bureau de Yves à ce moment pour répondre à des questions techniques s'il y a lieu.

Merci à l'avance et bon retour !

Michel G.

Michel Gilbert, M. Sc.
Directeur / Director
Direction des sciences pélagiques et écosystémiques / Pelagic and Ecosystem Science Branch
Direction régionale des Sciences / Regional Science Directorate
Pêches et Océans Canada / Fisheries and Oceans Canada
Institut Maurice-Lamontagne / Maurice Lamontagne Institute
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Mont-Joli, Québec, Canada G5H 3Z4
Tél. / Tel. : (418) 775-0604
Téléc. / Fax : (418) 775-0718
Courriel / E-mail : michel.gilbert@dfo-mpo.gc.ca
http://www.qc.dfo-mpo.gc.ca/iml

Ma langue, une question de respect / My language, a matter of respect

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De : Doniol-Valcroze, Thomas
Envoyé : 11 mai 2017 22:28
À : de Lafontaine, Yves; Gilbert, Michel; Castonguay, Martin
Cc : Racine, Sylvi
Objet : RE: Mino briefing on mackerel

Bonsoir Yves,

J'ai intégré tes commentaires et ceux de Michel dans cette version. J'espère que c'est mieux comme ça.

Il est peut-être temps de demander leur avis à l'équipe de Jean?

Thomas

De : de Lafontaine, Yves
Envoyé : 11 mai 2017 18:00
À : Doniol-Valcroze, Thomas; Gilbert, Michel; Castonguay, Martin
Cc : Racine, Sylvi
Objet : Re: Mino briefing on mackerel

Bonjour à tous,

Ou en sommes-nous avec ce breffage? Peut-on avoir une nouvelle version car nous devons finaliser pour demain au bureau de Ottawa. Svp me transmettre votre nouvelle version.

Envoyé de mon smartphone BlackBerry 10 sur le réseau Bell.

De: de Lafontaine, Yves
Envoyé: lundi 8 mai 2017 22:33
À: Doniol-Valcroze, Thomas; Gilbert, Michel; Castonguay, Martin
Cc: Racine, Sylvi
Objet: RE: Mino briefing on mackerel

Mes commentaires.

Yves de Lafontaine

Directeur, Institut Maurice Lamontagne

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s.16(2)

Directeur, Direction régionale des Sciences
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Director, Maurice Lamontagne Institute
Director, Sciences regional directorate
Fisheries and Oceans Canada / Government of Canada
Yves.delafontaine@dfo-mpo.gc.ca Tel : 418-775-0555 / Cel. : [redacted]



De : Doniol-Valcroze, Thomas
Envoyé : 8 mai 2017 21:40
À : Gilbert, Michel <Michel.Gilbert@dfo-mpo.gc.ca>
Cc : Racine, Sylvi <Sylvi.Racine@dfo-mpo.gc.ca>; Castonguay, Martin <Martin.Castonguay@dfo-mpo.gc.ca>; de Lafontaine, Yves <Yves.deLafontaine@dfo-mpo.gc.ca>
Objet : RE: Mino briefing on mackerel

Michel,

Voici une première ébauche de breffage technique sur le maquereau, basée sur des diapos de Julie Marentette et sur notre présentation à AMAC. Il faudra les adapter en fonction de la décision du ministre.

Dites-nous ce que vous en pensez.

Thomas

De : Gilbert, Michel
Envoyé : 8 mai 2017 08:54
À : Castonguay, Martin
Cc : de Lafontaine, Yves; Racine, Sylvi; Doniol-Valcroze, Thomas
Objet : RE: Mino briefing on mackerel

Martin,

STP me contacter aujourd'hui à ce sujet. Étant donné votre voyage cette semaine à Woodshole, il faut se coordonner avec Sylvi le plus rapidement possible pour préparer le matériel requis.

Merci à l'avance !

Michel G.

Michel Gilbert, M. Sc.
Directeur / Director

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Direction des sciences pélagiques et écosystémiques / Pelagic and Ecosystem Science Branch
Direction régionale des Sciences / Regional Science Directorate
Pêches et Océans Canada / Fisheries and Oceans Canada
Institut Maurice-Lamontagne / Maurice Lamontagne Institute
850, Route de la Mer, C.P. 1000
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Tél. / Tel. : (418) 775-0604
Téléc. / Fax : (418) 775-0718
Courriel / E-mail : michel.gilbert@dfo-mpo.gc.ca
http://www.qc.dfo-mpo.gc.ca/iml

Ma langue, une question de respect
My language, a matter of respect

De : de Lafontaine, Yves
Envoyé : 5 mai 2017 18:05
À : Gilbert, Michel; Racine, Sylvi; Castonguay, Martin
Objet : TR: Mino briefing on mackerel

Bonjour

Le dossier « maquereau » requiert un breffage technique pour les média afin de répondre aux questions éventuels suite à la sortie de l'avis ministériel du TAC. Jean Landry va envoyer un exemple de ce qui a été fait pour Terre-Neuve récemment (crevette) et qu'on pourra utiliser. L'équipe de Jean peut aussi nous donner un coup de pouce et doit absolument voir le produit final avant la sortie. Donc on travaille de concert avec eux pour préparer et finaliser le matériel.
Le ministre ferait l'annonce le 15 ou 16 mai prochain, ce qui laisse un peu de temps, mais selon la décision finale de la gestion des pêches, il faudra ajuster le discours et les Q&R.

SVP coordonner la production entre vous trois. Je vous transmets info dès réception.

Yves de Lafontaine

Directeur, Institut Maurice Lamontagne
Directeur, Direction régionale des Sciences
Pêches et Océans Canada / Gouvernement du Canada
Yves.delafontaine@dfo-mpo.gc.ca Tél. : 418-775-0555 / tél. cell. : [redacted]

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J'ai 30 ans / I'm 30 years old
INSTITUT MAURICE-LAMONTAGNE
MAURICE LAMONTAGNE INSTITUTE

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De : Landry, Jean
Envoyé : 4 mai 2017 17:52
À : Vézina, Alain <Alain.Vezina@dfo-mpo.gc.ca>; de Lafontaine, Yves <Yves.deLafontaine@dfo-mpo.gc.ca>
Cc : Chin, Melanie <Melanie.Chin@dfo-mpo.gc.ca>; White, Andrea <Andrea.White@dfo-mpo.gc.ca>; Northcott, Jennifer <Jennifer.Northcott@dfo-mpo.gc.ca>; Krohn, Martha <Martha.Krohn@dfo-mpo.gc.ca>
Objet : Fw: Mino briefing on mackerel

Alain: on va aussi devoir produire un court texte sur les progres realises avec l,avaluation sur le maquereau. J.anticipe un breffage avec le ministre sur le maqureau pour le 15 ou 16 mai (TBC).

Yves: un breffage technique pour les media a été demande étant donné la sensibilite liee a cet enjeu. Details a venir mais on devrait anticiper un breffage en français et un en anglais.

Jean

Sent from my BlackBerry 10 smartphone on the Rogers network.

From: Burns, Adam <Adam.Burns@dfo-mpo.gc.ca>
Sent: Thursday, May 4, 2017 5:11 PM
To: French, Christopher
Cc: Lapointe, Sylvie; Landry, Jean
Subject: Mino briefing on mackerel

Hi,

We had a mino briefing on mackerel science today where Jean Landry, Martha Krohn and I reviewed the improvements which have occurred in mackerel science over the last year as well as management improvements related to monitoring and reporting which are being implemented for the coming season.

It went well, the only outcome being a request from mino (Sheldon) that the dept consider a joint technical briefing on science and management when the decision comes out -- perhaps one in English and one in French.

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AB

Sent from my BlackBerry 10 smartphone on the Rogers network.

No information has been removed or severed from this page

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Marentette, Julie

From: Landry, Jean
Sent: May-19-17 12:20 PM
To: Marentette, Julie
Cc: Duprey, Nicholas
Subject: TR: Mino briefing on mackerel
Attachments: Atlantic Mackerel Briefing draft.ppt; Atlantic Mackerel Briefing draft-fr.ppt

Follow Up Flag: Follow up
Flag Status: Flagged

Jean Landry

Director , Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Jean.Landry@dfo-mpo.gc.ca / Tel: 613-993-0029

Directeur, Sciences halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Jean.Landry@dfo-mpo.gc.ca / Tél. : 613-993-0029

Government of Canada Gouvernement du Canada

Canada

De : Landry, Jean
Envoyé : 19 mai 2017 07:06
À : Burns, Adam <Adam.Burns@dfo-mpo.gc.ca>
Cc : McPherson, Arran <Arran.McPherson@dfo-mpo.gc.ca>; Northcott, Jennifer <Jennifer.Northcott@dfo-mpo.gc.ca>
Objet : TR: Mino briefing on mackerel

The French version of the Science deck has been shared with the region yesterday in order for Yves' team to review and finalize the deck. Any news about a decision on mackerel and a potential date for the technical media briefing? Are you preparing a deck for the management aspects?

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Jean Landry

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Fisheries and Oceans Canada / Government of Canada
Jean.Landry@dfo-mpo.gc.ca / Tel: 613-993-0029

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Jean.Landry@dfo-mpo.gc.ca / Tél. : 613-993-0029

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De : Landry, Jean
Envoyé : 18 mai 2017 14:49
À : de Lafontaine, Yves <Yves.deLafontaine@dfo-mpo.gc.ca>
Cc : Krohn, Martha <Martha.Krohn@dfo-mpo.gc.ca>
Objet : TR: Mino briefing on mackerel

On a reçu la version française de la présentation.

Jean Landry

Director , Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Jean.Landry@dfo-mpo.gc.ca / Tel: 613-993-0029

Directeur, Sciences halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Jean.Landry@dfo-mpo.gc.ca / Tél. : 613-993-0029

Government of Canada / Gouvernement du Canada
Canada

De : Boudreau, Carol-Ann
Envoyé : 18 mai 2017 13:52
À : Landry, Jean <Jean.Landry@dfo-mpo.gc.ca>
Cc : Krohn, Martha <Martha.Krohn@dfo-mpo.gc.ca>
Objet : FW: Mino briefing on mackerel

Voilà!

From: Landry, Jean
Sent: May-17-17 5:49 AM
To: Boudreau, Carol-Ann
Cc: Krohn, Martha
Subject: Fw: Mino briefing on mackerel

Can you send to translation. Deadline should be COB tomorrow. Merci
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From: de Lafontaine, Yves <Yves.deLafontaine@dfo-mpo.gc.ca>
Sent: Tuesday, May 16, 2017 6:39 PM
To: Landry, Jean; White, Andrea
Cc: Doniol-Valcroze, Thomas; Gilbert, Michel
Subject: TR: Mino briefing on mackerel

Jean,

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Yves de Lafontaine

Directeur, Institut Maurice Lamontagne
Directeur, Direction régionale des Sciences
Pêches et Océans Canada / Gouvernement du Canada
Yves.delafontaine@dfo-mpo.gc.ca Tél. : 418-775-0555 / tél. cell. : [redacted]

Director, Maurice Lamontagne Institute
Director, Sciences regional directorate
Fisheries and Oceans Canada / Government of Canada
Yves.delafontaine@dfo-mpo.gc.ca Tel : 418-775-0555 / Cel. : [redacted]



De : Landry, Jean
Envoyé : 16 mai 2017 12:23
À : White, Andrea <Andrea.White@dfo-mpo.gc.ca>; de Lafontaine, Yves <Yves.deLafontaine@dfo-mpo.gc.ca>
Cc : Krohn, Martha <Martha.Krohn@dfo-mpo.gc.ca>; Marentette, Julie <Julie.Marentette@dfo-mpo.gc.ca>; Burns, Adam <Adam.Burns@dfo-mpo.gc.ca>; Lester, Brian <Brian.Lester@dfo-mpo.gc.ca>; Northcott, Jennifer <Jennifer.Northcott@dfo-mpo.gc.ca>; Perron, Heloise <Heloise.Perron@dfo-mpo.gc.ca>
Objet : TR: Mino briefing on mackerel

Andy,

Attached is the draft deck for the potential technical media briefing on mackerel. Below Martha has provided few suggestions to Quebec Science's team. You may want to provide this deck to Arran when she is back. I have no major flag to raise about this deck. As discussed with Brian this morning, I take the opportunity of this email to share this **draft** deck with our EFM colleagues at HQ as I understand that they may want to prepare a deck covering the management aspects as part of this briefing (to be confirmed with EFM). I also CC our colleagues from COMM.

Next steps:

- Would be important to get some intel from yesterday's Min briefing on mackerel. Is this still the plan to conduct such briefing and if so, when and where? On this matter, Yves and I had a preliminary chat on the location and Halifax was mentioned as an option (one technical briefing in French and English in one location). Can you please check with ADMO about the next steps as Yves' team will need to know and plan accordingly. Adam: any thoughts on this?

Yves: Est-ce que tu as une version française en préparation? Sinon, on peut s'en occuper ici. Tu n'as qu'à m'expédier la version finale anglaise et on procédera. Nous t'expédierons la version française pour validation par ton équipe.

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Jean
Jean Landry
Director , Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Jean.Landry@dfo-mpo.gc.ca / Tel: 613-993-0029

Directeur, Sciences halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Jean.Landry@dfo-mpo.gc.ca / Tél. : 613-993-0029

Government of Canada / Gouvernement du Canada — Canada

De : Krohn, Martha
Envoyé : 15 mai 2017 16:30
À : Doniol-Valcroze, Thomas <Thomas.Doniol-Valcroze@dfo-mpo.gc.ca>; Castonguay, Martin <Martin.Castonguay@dfo-mpo.gc.ca>
Cc : Gilbert, Michel <Michel.Gilbert@dfo-mpo.gc.ca>; Landry, Jean <Jean.Landry@dfo-mpo.gc.ca>; Marentette, Julie <Julie.Marentette@dfo-mpo.gc.ca>
Objet : RE: Mino briefing on mackerel

Hi Thomas and Martin,

The presentation looks great, looks like the right level for a media briefing. I am sure the will be very interested. A couple small points for your consideration from myself and Julie:

Slide 12: the official English translation of summary bullets used "facilitate" recovery ("maximize" recovery would be no fishing?)
Slide 3: typo, additional should have one n
Slide 5: Is it worth mentioning that some undeclared mackerel may also be caught by the American fishery? This is mentioned on slide 3 so maybe don't need to point it out twice.

Would you have the decision table handy at the media briefing in case there are questions about probabilities of growth for other TAC levels?

Jean may have something to add.

Merci!
Martha

From: de Lafontaine, Yves
Sent: May-12-17 11:11 AM
To: Landry, Jean; Krohn, Martha
Cc: Vincent, Patrick; Doniol-Valcroze, Thomas; Castonguay, Martin; Gilbert, Michel
Subject: TR: Mino briefing on mackerel

Bonjour Martha et Jean,

Voici la dernière version du deck de breffage pour le maquereau ajusté en fonction des scénarios de TAC à 10,000 t. En cas de questions, n'hésitez pas à appeler.

s.16(2)
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Martin et Thomas sont en route aujourd'hui de retour des USA et seront disponibles lundi matin pour toute discussion du dossier.

Yves de Lafontaine

Directeur, Institut Maurice Lamontagne
Directeur, Direction régionale des Sciences
Pêches et Océans Canada / Gouvernement du Canada
Yves.delafontaine@dfo-mpo.gc.ca Tél. : 418-775-0555 / tél. cell. : [redacted]

Director, Maurice Lamontagne Institute
Director, Sciences regional directorate
Fisheries and Oceans Canada / Government of Canada
Yves.delafontaine@dfo-mpo.gc.ca Tel : 418-775-0555 / Cel. : [redacted]



De : Gilbert, Michel
Envoyé : 12 mai 2017 10:59
À : Doniol-Valcroze, Thomas <Thomas.Doniol-Valcroze@dfo-mpo.gc.ca>; Castonguay, Martin <Martin.Castonguay@dfo-mpo.gc.ca>
Cc : Racine, Sylvi <Sylvi.Racine@dfo-mpo.gc.ca>; de Lafontaine, Yves <Yves.deLafontaine@dfo-mpo.gc.ca>; Landry, Jean <Jean.Landry@dfo-mpo.gc.ca>
Objet : RE: Mino briefing on mackerel

Merci Thomas !

Nous avons quelques petites corrections mineurs (éditoriales) et Yves va la transférer à Jean Landry sous peu. Prenez note que mon message ce matin ne contenait pas la bonne présentation et j'ai rectifié le tir avec Yves. Toutes mes excuses !

Prenez note enfin qu'il y aura un appel avec le ministre sur cette question lundi matin à 9h30 et il est crucial que toi et/ou Martin soyez présents au bureau de Yves à ce moment pour répondre à des questions techniques s'il y a lieu.

Merci à l'avance et bon retour !

Michel G.

Michel Gilbert, M. Sc.
Directeur / Director
Direction des sciences pélagiques et écosystémiques / Pelagic and Ecosystem Science Branch
Direction régionale des Sciences / Regional Science Directorate
Pêches et Océans Canada / Fisheries and Oceans Canada
Institut Maurice-Lamontagne / Maurice Lamontagne Institute

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Tél. / Tel. : (418) 775-0604
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Courriel / E-mail : michel.gilbert@dfo-mpo.gc.ca
http://www.qc.dfo-mpo.gc.ca/iml

Ma langue, une question de respect / My language, a matter of respect

De : Doniol-Valcroze, Thomas
Envoyé : 11 mai 2017 22:28
À : de Lafontaine, Yves; Gilbert, Michel; Castonguay, Martin
Cc : Racine, Sylvi
Objet : RE: Mino briefing on mackerel

Bonsoir Yves,

J'ai intégré tes commentaires et ceux de Michel dans cette version. J'espère que c'est mieux comme ça.

Il est peut-être temps de demander leur avis à l'équipe de Jean?

Thomas

De : de Lafontaine, Yves
Envoyé : 11 mai 2017 18:00
À : Doniol-Valcroze, Thomas; Gilbert, Michel; Castonguay, Martin
Cc : Racine, Sylvi
Objet : Re: Mino briefing on mackerel

Bonjour à tous,

Ou en sommes-nous avec ce breffage? Peut-on avoir une nouvelle version car nous devons finaliser pour demain au bureau de Ottawa. Svp me transmettre votre nouvelle version.

Envoyé de mon smartphone BlackBerry 10 sur le réseau Bell.

De: de Lafontaine, Yves
Envoyé: lundi 8 mai 2017 22:33
À: Doniol-Valcroze, Thomas; Gilbert, Michel; Castonguay, Martin
Cc: Racine,

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Sylvi
Objet: RE:
Mino
briefing on
mackerel

s.16(2)

Mes commentaires.

Yves de Lafontaine

Directeur, Institut Maurice Lamontagne
Directeur, Direction régionale des Sciences
Pêches et Océans Canada / Gouvernement du Canada
Yves.delafontaine@dfo-mpo.gc.ca Tél. : 418-775-0555 / tél. cell. : [redacted]

Director, Maurice Lamontagne Institute
Director, Sciences regional directorate
Fisheries and Oceans Canada / Government of Canada
Yves.delafontaine@dfo-mpo.gc.ca Tel : 418-775-0555 / Cel. : [redacted]

J'ai 30 ans / I'm 30 years old
INSTITUT MAURICE-LAMONTAGNE
MAURICE LAMONTAGNE INSTITUTE

De : Doniol-Valcroze, Thomas
Envoyé : 8 mai 2017 21:40
À : Gilbert, Michel <Michel.Gilbert@dfo-mpo.gc.ca>
Cc : Racine, Sylvi <Sylvi.Racine@dfo-mpo.gc.ca>; Castonguay, Martin <Martin.Castonguay@dfo-mpo.gc.ca>; de Lafontaine, Yves <Yves.deLafontaine@dfo-mpo.gc.ca>
Objet : RE: Mino briefing on mackerel

Michel,

Voici une première ébauche de breffage technique sur le maquereau, basée sur des diapos de Julie Marentette et sur notre présentation à AMAC. Il faudra les adapter en fonction de la décision du ministre.

Dites-nous ce que vous en pensez.

Thomas

De : Gilbert, Michel
Envoyé : 8 mai 2017 08:54
À : Castonguay, Martin
Cc : de Lafontaine, Yves; Racine, Sylvi; Doniol-Valcroze, Thomas
Objet : RE: Mino briefing on mackerel

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s.16(2)

Martin,

STP me contacter aujourd'hui à ce sujet. Étant donné votre voyage cette semaine à Woodshole, il faut se coordonner avec Sylvi le plus rapidement possible pour préparer le matériel requis.

Merci à l'avance !

Michel G.

Michel Gilbert, M. Sc.
Directeur / Director
Direction des sciences pélagiques et écosystémiques / Pelagic and Ecosystem Science Branch
Direction régionale des Sciences / Regional Science Directorate
Pêches et Océans Canada / Fisheries and Oceans Canada
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Mont-Joli, Québec, Canada G5H 3Z4
Tél. / Tel. : (418) 775-0604
Téléc. / Fax : (418) 775-0718
Courriel / E-mail : michel.gilbert@dfo-mpo.gc.ca
http://www.qc.dfo-mpo.gc.ca/iml

Ma langue, une question de respect / My language, a matter of respect

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De : de Lafontaine, Yves
Envoyé : 5 mai 2017 18:05
À : Gilbert, Michel; Racine, Sylvi; Castonguay, Martin
Objet : TR: Mino briefing on mackerel

Bonjour

Le dossier « maquereau » requiert un breffage technique pour les média afin de répondre aux questions éventuels suite à la sortie de l'avis ministériel du TAC. Jean Landry va envoyer un exemple de ce qui a été fait pour Terre-Neuve récemment (crevette) et qu'on pourra utiliser. L'équipe de Jean peut aussi nous donner un coup de pouce et doit absolument voir le produit final avant la sortie. Donc on travaille de concert avec eux pour préparer et finaliser le matériel.
Le ministre ferait l'annonce le 15 ou 16 mai prochain, ce qui laisse un peu de temps, mais selon la décision finale de la gestion des pêches, il faudra ajuster le discours et les Q&R.

SVP coordonner la production entre vous trois. Je vous transmets info dès réception.

Yves de Lafontaine

Directeur, Institut Maurice Lamontagne
Directeur, Direction régionale des Sciences
Pêches et Océans Canada / Gouvernement du Canada
Yves.delafontaine@dfo-mpo.gc.ca Tél. : 418-775-0555 / tél. cell. [redacted]

Director, Maurice Lamontagne Institute

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s.16(2)

Director, Sciences regional directorate
Fisheries and Oceans Canada / Government of Canada
Yves.delafontaine@dfo-mpo.gc.ca Tel : 418-775-0555 / Cel. : [redacted]

J'ai 30 ans / I'm 30 years old
INSTITUT MAURICE-LAMONTAGNE
MAURICE LAMONTAGNE INSTITUTE

De : Landry, Jean
Envoyé : 4 mai 2017 17:52
À : Vézina, Alain <Alain.Vezina@dfo-mpo.gc.ca>; de Lafontaine, Yves <Yves.deLafontaine@dfo-mpo.gc.ca>
Cc : Chin, Melanie <Melanie.Chin@dfo-mpo.gc.ca>; White, Andrea <Andrea.White@dfo-mpo.gc.ca>; Northcott, Jennifer <Jennifer.Northcott@dfo-mpo.gc.ca>; Krohn, Martha <Martha.Krohn@dfo-mpo.gc.ca>
Objet : Fw: Mino briefing on mackerel

Alain: on va aussi devoir produire un court texte sur les progres realises avec l,avaluation sur le maquereau. J.anticipe un breffage avec le ministre sur le maqureau pour le 15 ou 16 mai (TBC).

Yves: un breffage technique pour les media a été demande étant donné la sensibilite liee a cet enjeu. Details a venir mais on devrait anticiper un breffage en français et un en anglais.

Jean

Sent from my BlackBerry 10 smartphone on the Rogers network.

From: Burns, Adam <Adam.Burns@dfo-mpo.gc.ca>
Sent: Thursday, May 4, 2017 5:11 PM
To: French, Christopher
Cc: Lapointe, Sylvie; Landry, Jean
Subject: Mino briefing on mackerel

Document Released Under the Access to Information Act / Document divulgué en vertu de la Loi sur l'accès à l'information.

Hi,

We had a mino briefing on mackerel science today where Jean Landry, Martha Krohn and I reviewed the improvements which have occurred in mackerel science over the last year as well as management improvements related to monitoring and reporting which are being implemented for the coming season.

It went well, the only outcome being a request from mino (Sheldon) that the dept consider a joint technical briefing on science and management when the decision comes out -- perhaps one in English and one in French.

AB
Sent from my BlackBerry 10 smartphone on the Rogers network.

Pages 3247 to / à 3258

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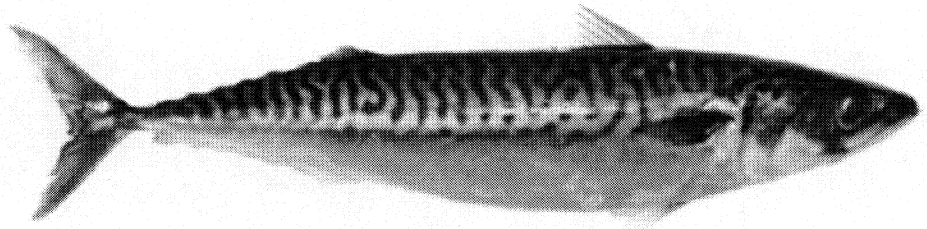
pages 2728 to / à 2739

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Fisheries and Oceans Canada | Pêches et Océans Canada

Séance d'information pour les médias

Évaluation du maquereau bleu(sous-zones 3 et 4 de l'OPANO)



Région du Québec

Mai 2017

Canada

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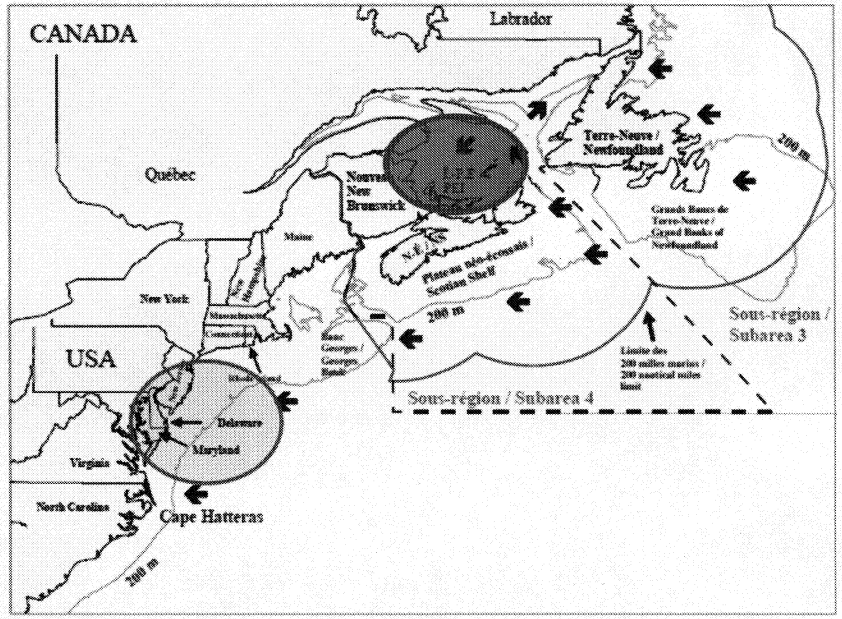
Contexte

- Poisson pélagique, migratoire se déplaçant en banc
- Utilisé comme appât pour le homard et le crabe
- Fraie dans le golfe du Saint-Laurent et hiverne sur le plateau continental
- Atteint la maturité à deux ans
- Pleinement recruté à la pêche à l'âge d'environ trois ans

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Préoccupations transfrontalières

- Populations de frai du Nord + du Sud
- Distincts des stocks européens sur le plan génétique
- Les stocks américains et canadiens ne semblent pas être distincts sur le plan génétique.
- Proportion inconnue de poisson du Nord (canadien) dans les débarquements américains
- Des travaux supplémentaires sont menés pour mieux comprendre la structure des stocks.



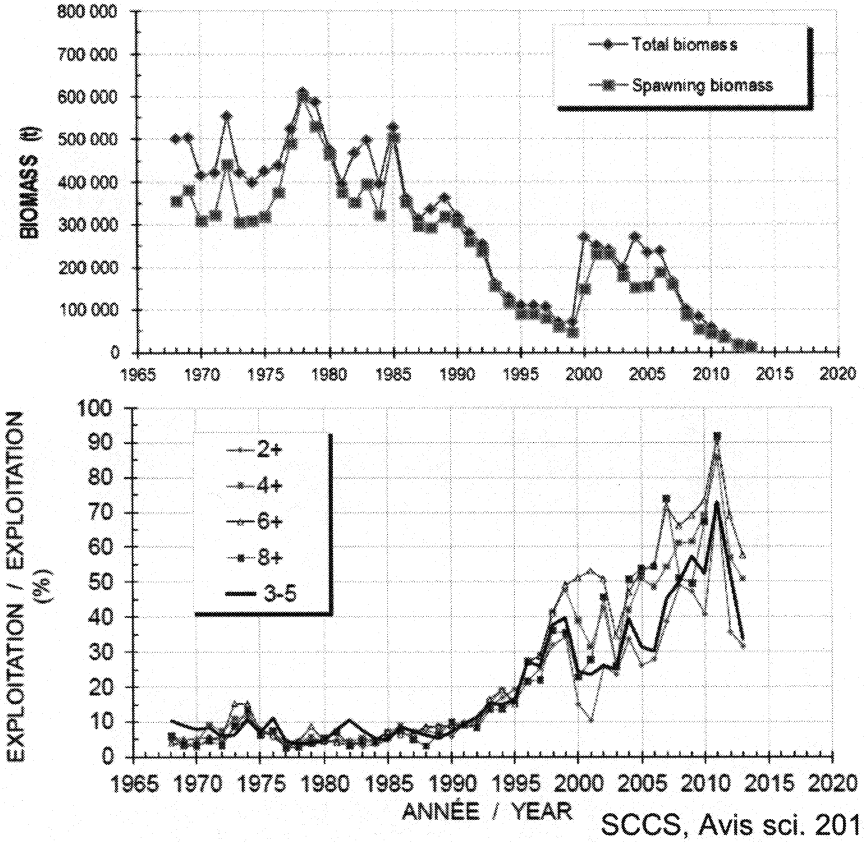
Canada

003261

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Évaluation de 2014 – Où en sommes-nous?

- Débarquements commerciaux et biomasse ↓, mortalité par pêche ↑
- Relevé sur les œufs ↓, diminution de la structure par âge
- L'abondance des stocks modélisée a atteint son niveau le plus faible en 2013.
- **État du stock :** critique, inférieur à trois points de référence limites
- En fonction du modèle de population et des prises déclarées, l'avis scientifique a recommandé un total autorisé des captures (TAC) de 800 tonnes.
- Le TAC était établi à 8 000 tonnes pour 2015 et 2016.



SCCS, Avis sci. 2014/030

Canada

003262

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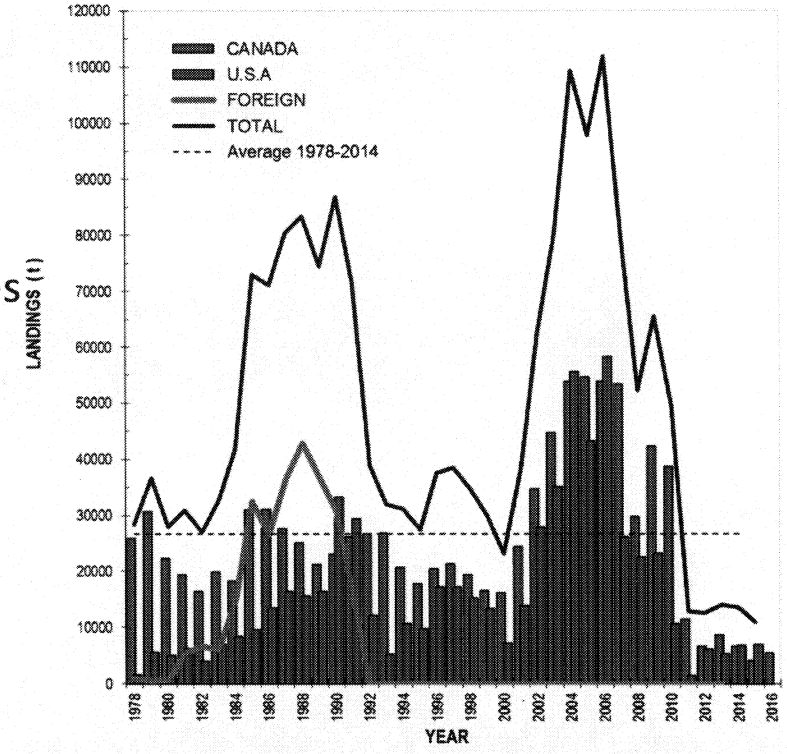
Incertitude sur le plan de la pêche au maquereau bleu

- Seuls les débarquements commerciaux sont déclarés.
- Les débarquements non déclarés sont utilisés aux fins suivantes :
  - appâts à des fins personnelles;
  - ventes entre pêcheurs;
  - usage récréatif;
  - mortalité par rejet, journaux non remplis.
- Un sondage Internet relatif à l'usage récréatif et aux appâts laisse croire que les prises non déclarées en 2016 étaient de l'ordre de **50 à 100 %** des prises déclarées.

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Prises commerciales en 2016

- Les prises déclarées demeurent faibles depuis 2010.
- Octobre 2016 : pêche fermée, car le TAC de 8 000 tonnes a été atteint avant la fin de la saison de pêche.
- 35 % des prises au nord-est de Terre-Neuve-et-Labrador (division 3K), où les prises sont faibles ces dernières années.

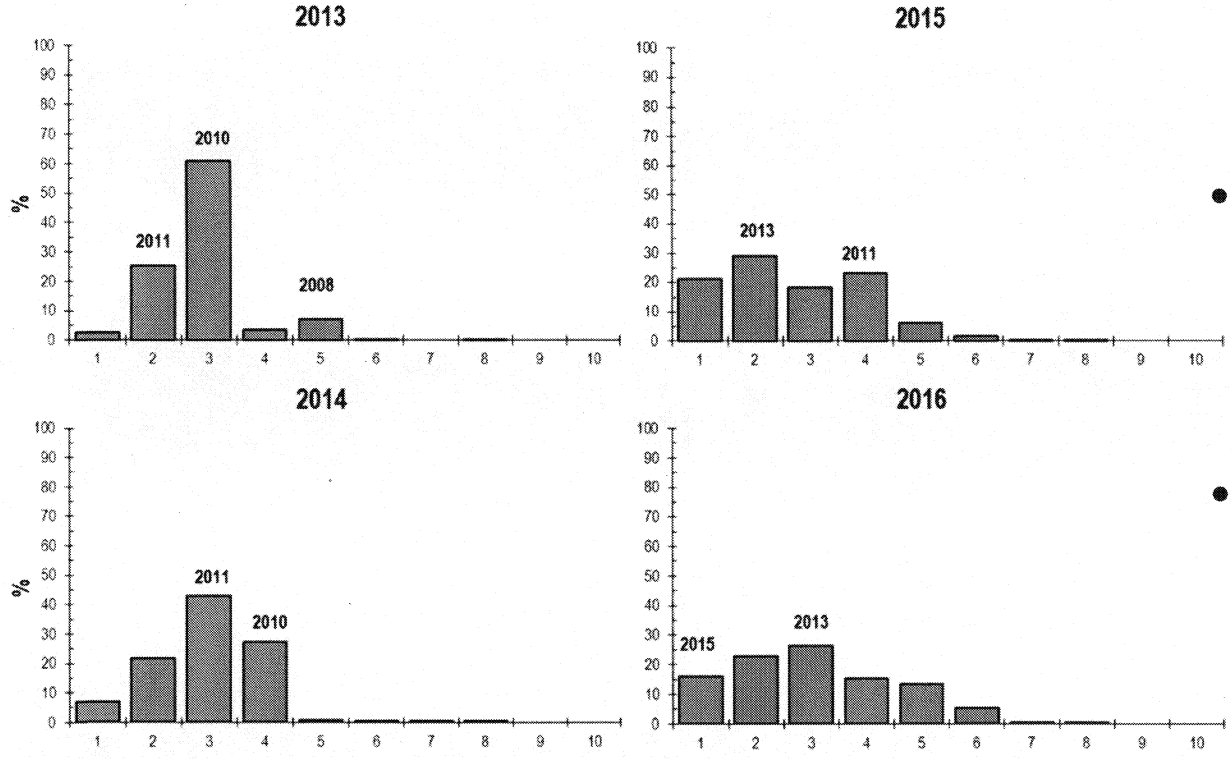


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Structure par âge de 2013 à 2016



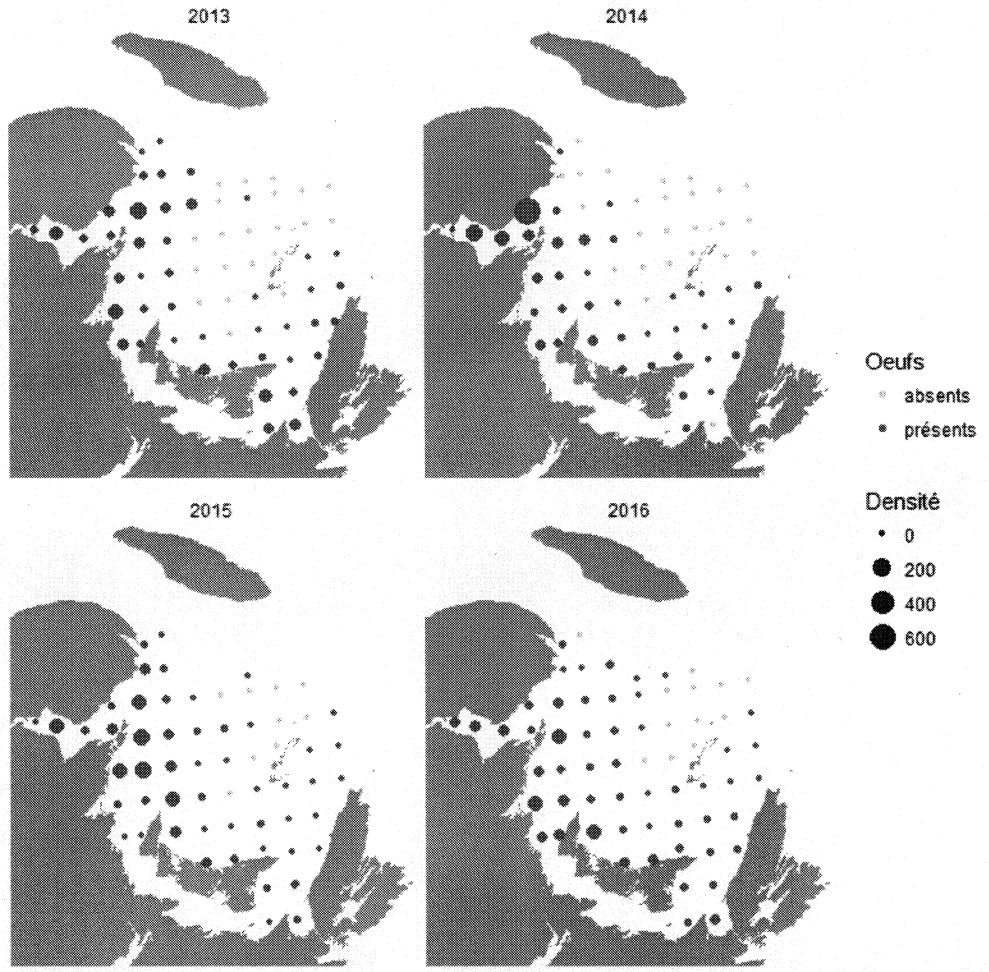
- La structure par âge est encore composée de jeunes poissons et ne compte aucun poisson plus âgé (cinq ans et plus).
- Légère amélioration depuis 2013, augmentation du nombre de poissons âgés de cinq et six ans.

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Relevé des œufs de maquereau bleu

Un relevé de la production d'œufs est mené chaque année, en juin, dans le sud du golfe du Saint-Laurent pour estimer la biomasse du stock reproducteur.



Canada

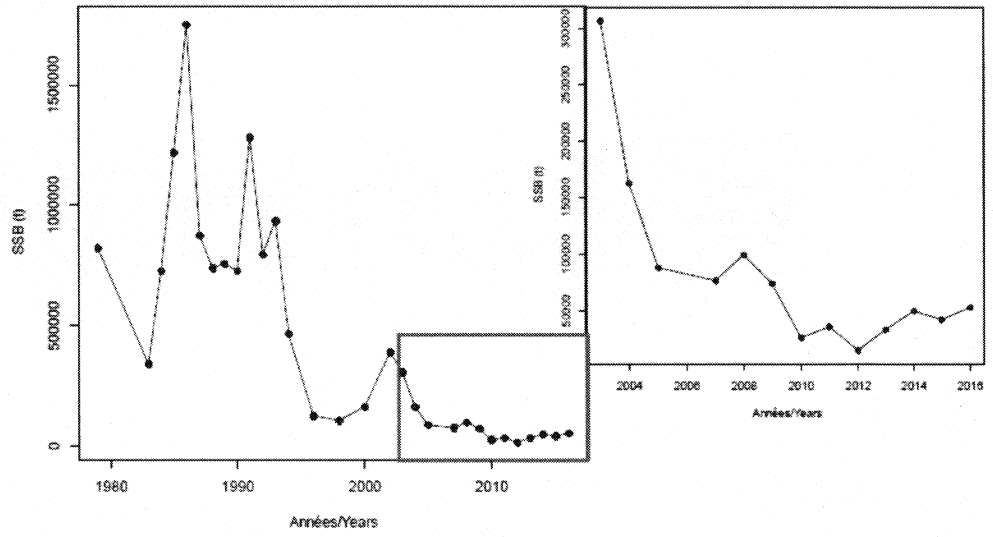
003266

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Indice d'abondance découlant du relevé des œufs

Selon les données sur les œufs uniquement, on a établi que le maquereau bleu a atteint sa biomasse du stock reproducteur la plus faible en 2012 et qu'il affiche une légère hausse depuis.

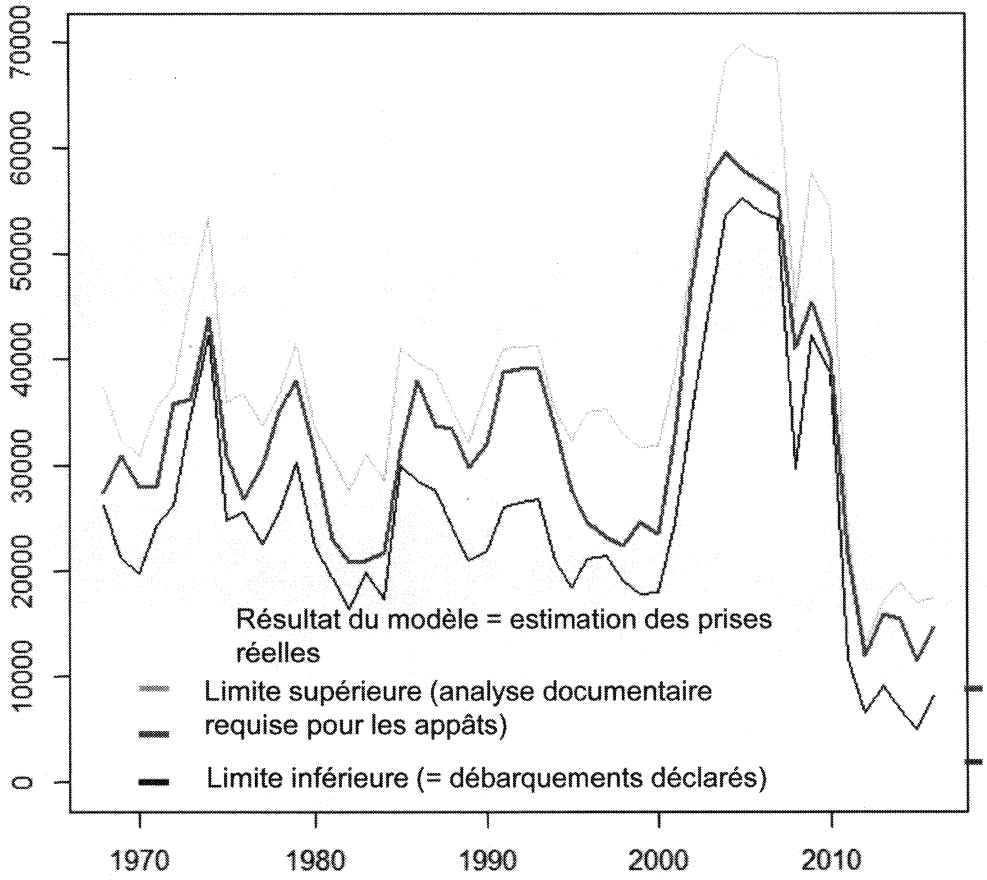
Les estimations récentes demeurent bien inférieures aux niveaux d'abondance de plus de 750 000 tonnes signalés dans les années 1980.



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Modèle statistique



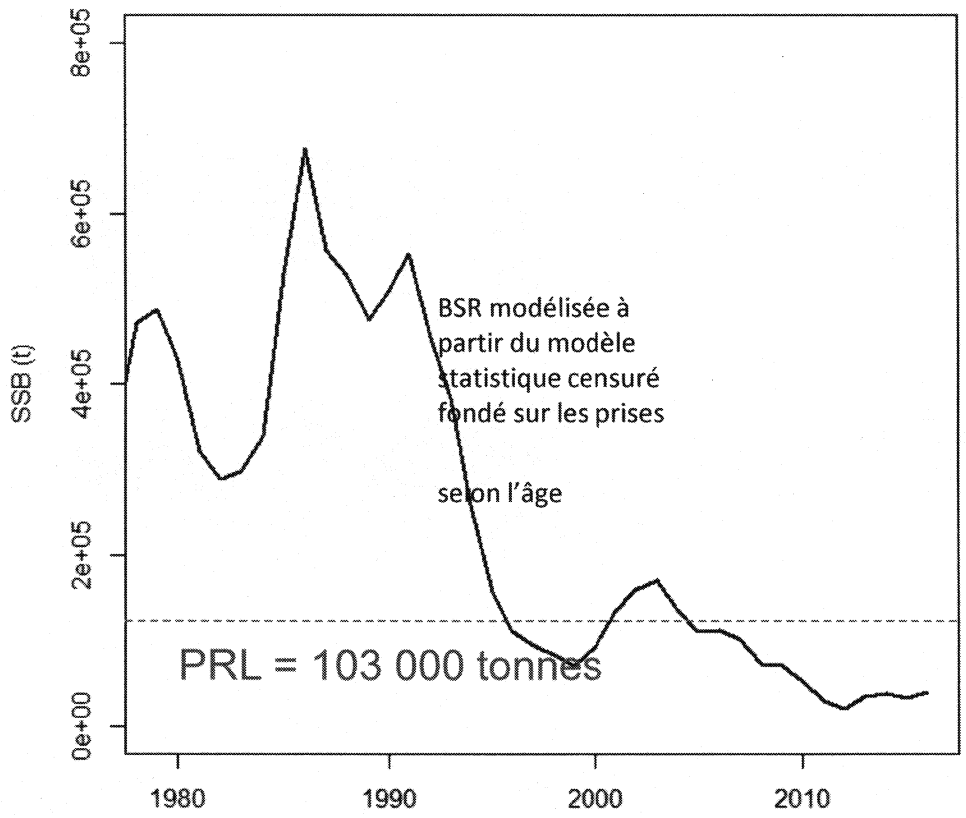
- Un **modèle statistique censuré fondé sur les prises selon l'âge** a été élaboré pour estimer les prises non déclarées.
- Prises déclarées = limite inférieure
- Prises totales possibles = limite supérieure
- Cela signifie qu'en fonction d'un total autorisé de captures commerciales de 8 000 tonnes, les débarquements totaux, y compris les estimations déclarées, ont atteint approximativement 14 000 tonnes, en 2016.

Estimation des prises non déclarées **environ 6 000 tonnes**

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Mars 2017 – État du stock mis à jour



- Le nouveau modèle confirme que la biomasse du stock reproducteur de maquereau bleu a affiché une baisse en raison des taux d'exploitation élevés et qu'elle a atteint son niveau le plus faible en 2012 (20 000 tonnes). Selon le modèle, en 2016, la biomasse du stock reproducteur était de 40 000 tonnes.

- Le point de référence limite pour ce stock est établi à 103 000 tonnes. Selon le modèle censuré, l'abondance des stocks en 2016 représentait environ 40 % du point de référence limite de 103 000 tonnes.

→ Le stock est encore bien ancré dans la zone critique.

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003269

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L'avenir : prévisions

- Des prévisions modélisées ont été utilisées pour quantifier les risques liés aux différents scénarios de prises.
- Compte tenu du fait que le stock est dans une zone critique, les prises totales (déclarées + non déclarées) devraient être assez faibles pour maximiser le rétablissement.
- Selon les prévisions, les débarquements totaux de 16 000 tonnes (TAC de 10 000 tonnes et prises non déclarées pouvant atteindre 6 000 tonnes)
- Cela correspond à une forte probabilité de croissance, définie par le cadre de l'approche de précaution du MPO (élevée = de 75 à 95 %).

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s.21(1)(b)

Marentette, Julie

From: Duprey, Nicholas
Sent: May-19-17 2:24 PM
To: Marentette, Julie; Landry, Jean
Subject: RE: CC: 233/17 HQ-ML: ATLANTIC MACKEREL TOTAL ALLOWABLE CATCH 2017

Thanks Julie, for a speedy review and analysis.
Jean I have not been involved in these mackerel discussions, but I quickly read the docs and see nothing problematic.
Cheers
Nick

Nicholas Duprey, M.Sc.

Senior Science Advisor | Conseiller scientifique
Fish Population Science / Fisheries and Oceans Canada / Government of Canada
Sciences des populations halieutiques / Pêches et Océans Canada / Gouvernement du Canada
Nicholas.Duprey@dfo-mpo.gc.ca / **Tel | Tél : 604-499-0469**

From: Marentette, Julie
Sent: 2017–May-19 1:36 PM
To: Landry, Jean
Cc: Duprey, Nicholas
Subject: RE: CC: 233/17 HQ-ML: ATLANTIC MACKEREL TOTAL ALLOWABLE CATCH 2017

Hi Jean,

I have no issues, they've accepted the revised bullets we provided to them earlier this week especially concerning the justification for 'high probability of growth' which comes from the PA framework. The bullet needed to be reworded to reflect that the department is using a definition from the PA framework (what is 'high'), without sounding like the stock is managed fully according to the PA framework (which being in the critical zone would require the forthcoming rebuilding working group, etc.).

This was what we sent Comms and they accepted:

- The established harvest level allows for a greater than 75% probability that the stock biomass will continue to increase at the established harvest level. This corresponds to a high probability of growth and reflects the Department's commitment to the Precautionary Approach. Specifically, with commercial TAC of 10,000t [redacted] taking into account improved catch monitoring in the fishery.
- The Department has initiated a DFO/ industry rebuilding plan working group for this stock that will meet over the coming year to develop a plan for consideration by the Atlantic Mackerel Advisory Committee to support rebuiliding the stock into the Healthy Zone of the Precautionary Approach Framework.

Best regards,

Julie Marentette, Ph.D.

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Science Advisor, Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Julie.Marentette@dfo-mpo.gc.ca /Tel: 613-943-2098

Conseillère scientifique, Sciences des populations halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Julie.Marentette@dfo-mpo.gc.ca /Tél: 613-943-2098

From: Landry, Jean
Sent: May-19-17 1:03 PM
To: Marentette, Julie
Cc: Duprey, Nicholas
Subject: Re: CC: 233/17 HQ-ML: ATLANTIC MACKEREL TOTAL ALLOWABLE CATCH 2017

Can you review them and let me know if any issue before we receive the red docket? Tks
Jean

Sent from my BlackBerry 10 smartphone on the Rogers network.

From: Krohn, Martha
Sent: Friday, May 19, 2017 12:58 PM
To: Landry, Jean; Marentette, Julie
Subject: Fw: CC: 233/17 HQ-ML: ATLANTIC MACKEREL TOTAL ALLOWABLE CATCH 2017

Sent from my BlackBerry 10 smartphone on the Rogers network.

From: ComApproval / Approbation (DFO/MPO) <ComApproval/Approbation.XNCR@dfo-mpo.gc.ca>
Sent: Friday, May 19, 2017 12:15 PM
To: Beamish, Kayla
Cc: Walker-Sisttie, Rhonda; Horgan, Carole; Nielsen, Ingrid; Smith, Kathleen; Lester, Brian; Krohn, Martha; Northcott, Jennifer; Stanek, Frank
Subject: CC: 233/17 HQ-ML: ATLANTIC MACKEREL TOTAL ALLOWABLE CATCH 2017

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ATLANTIC MACKEREL TOTAL ALLOWABLE CATCH 2017
MEDIA LINES

Thanks!

Elise Grundy
Communications Branch/ Direction générale des communications
613-949-9105 | facsimile/télécopieur 613-993-8277
elise.grundy@dfo-mpo.gc.ca
Fisheries and Oceans Canada | 200 Kent St. Ottawa, ON K1A 0E6
Pêches et Océans Canada | 200, rue Kent Ottawa, ON K1A OE6
Government of Canada | Gouvernement du Canada

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Communications

APPROVAL FORM / FORMULAIRE D'APPROBATION

MEDIA LINES

Start Date:
Date d'initiation : 19-May-2017

233/17

Project Title & No:
Titre et no. de projet : ***ATLANTIC MACKEREL TOTAL ALLOWABLE CATCH 2017***

Requested By:
Demandé par : **Communications**

FINAL DUE DATE:
ÉCHÉANCE : **24-May-2017** **IN MO**

Title Titre	Name Nom	Date Sent: Acheminé le	Signature:	Date:	Changes
Communications Advisor Agente des communications	Kayla Beamish	19-May-2017			☐
A/ Director, PASC Directrice int., APCS	Ingrid Nielsen				☐
A/Director General, Fisheries Resource Management	Adam Burns				☐
A/ADM, EFM Operations A/SMA, Opérations de la GEP	Sylvie Lapointe (13W092)				☐
A/DG, Communications DG, int., Communications	Rhonda Walker-Sisttie				☐
SADM, Strategic Policy SMA Principale, politiques stratégiques	Anne Lamar				☐
Deputy Minister Sous-ministre	Catherine Blewett				☐
Minister Ministre	Minister				☐

Rationale / Justification:

DFO will announce the 2017 Total Allowable Catch (TAC) decision for the Atlantic Mackerel fishery before the end of May (TBC) - could be announced at any point. The 2017 decision will be an increase from the 2016 TAC, and will include increased reporting requirements (which is likely to reduce undeclared/unreported). The decision may result in a negative reaction from stakeholders (industry, Indigenous groups, and Ecology Action Center.

CC: Brian Lester, Martha Krohn, Jennifer Northcott

Pages 3274 to / à 3275
are duplicates of
sont des duplicatas des
pages 3572 to / à 3573

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Marentette, Julie

From: Landry, Jean
Sent: May-19-17 4:03 PM
To: Northcott, Jennifer
Cc: Krohn, Martha; White, Andrea; Marentette, Julie; Duprey, Nicholas
Subject: RE: 233/17 HQ-ML: ATLANTIC MACKEREL TOTAL ALLOWABLE CATCH 2017

Thanks,

I just received the red docket and reviewed it. Now with DGO. Bon weekend à tous et toutes

Jean Landry

Director , Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Jean.Landry@dfo-mpo.gc.ca / Tel: 613-993-0029

Directeur, Sciences halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Jean.Landry@dfo-mpo.gc.ca / Tél. : 613-993-0029

Government of Canada / Gouvernement du Canada

Canada

De : Northcott, Jennifer
Envoyé : 19 mai 2017 15:10
À : Landry, Jean <Jean.Landry@dfo-mpo.gc.ca>
Cc : Krohn, Martha <Martha.Krohn@dfo-mpo.gc.ca>; White, Andrea <Andrea.White@dfo-mpo.gc.ca>
Objet : RE: 233/17 HQ-ML: ATLANTIC MACKEREL TOTAL ALLOWABLE CATCH 2017

No problem, Jean. I asked our approvals team to prepare a docket for Arran and Trevor.

Have a great long weekend!
Jennifer

From: Landry, Jean
Sent: May-19-17 3:04 PM
To: Northcott, Jennifer
Cc: Krohn, Martha; White, Andrea
Subject: RE: 233/17 HQ-ML: ATLANTIC MACKEREL TOTAL ALLOWABLE CATCH 2017

Thanks Jennifer,

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I know that my staff contributed to them but yes, the final version should come to us for final approval.

Jean Landry

Director , Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Jean.Landry@dfo-mpo.gc.ca / Tel: 613-993-0029

Directeur, Sciences halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Jean.Landry@dfo-mpo.gc.ca / Tél. : 613-993-0029

<< OLE Object: Picture (Device Independent Bitmap) >>

De : Northcott, Jennifer
Envoyé : 19 mai 2017 14:16
À : Landry, Jean <Jean.Landry@dfo-mpo.gc.ca>
Cc : Krohn, Martha <Martha.Krohn@dfo-mpo.gc.ca>
Objet : FW: 233/17 HQ-ML: ATLANTIC MACKEREL TOTAL ALLOWABLE CATCH 2017

Hi Jean:

The mackerel lines are moving through approvals in EFM. Please let me know if you have any comments. I understand that Martha provided comments already. It is not going through science for formal approval, but if you think it should, please let me know.

Jennifer

From: ComApproval / Approbation (DFO/MPO)
Sent: May-19-17 12:16 PM
To: Beamish, Kayla
Cc: Walker-Sisttie, Rhonda; Horgan, Carole; Nielsen, Ingrid; Smith, Kathleen; Lester, Brian; Krohn, Martha; Northcott, Jennifer; Stanek, Frank
Subject: CC: 233/17 HQ-ML: ATLANTIC MACKEREL TOTAL ALLOWABLE CATCH 2017

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ATLANTIC MACKEREL TOTAL ALLOWABLE CATCH 2017
<< Fichier: 233-17.pdf >>
MEDIA LINES

<< Fichier: ML_Mackerel_TAC.pdf >>
Thanks!

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Elise Grundy
Communications Branch/ Direction générale des communications
613-949-9105 | facsimile/télécopieur 613-993-8277
elise.grundy@dfo-mpo.gc.ca
Fisheries and Oceans Canada | 200 Kent St. Ottawa, ON K1A 0E6
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No information has been removed or severed from this page

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Smith, Kathleen

From: ComApproval / Approbation (DFO/MPO)
Sent: May-19-17 3:22 PM
To: Northcott, Jennifer; Beamish, Kayla
Cc: Smith, Kathleen; Perrault, Isabelle
Subject: RE: 233/17 HQ-ML: ATLANTIC MACKEREL TOTAL ALLOWABLE CATCH 2017

Hi Jennifer,

No problem, we have added them to the approval list for this docket.

Thanks,

Elise

From: Northcott, Jennifer
Sent: May-19-17 3:09 PM
To: Beamish, Kayla; ComApproval / Approbation (DFO/MPO)
Cc: Smith, Kathleen; Perrault, Isabelle
Subject: FW: 233/17 HQ-ML: ATLANTIC MACKEREL TOTAL ALLOWABLE CATCH 2017

Hi Kayla and Approvals team:

My science clients would like this docket to go through Arran and Trevor, too please. Sorry!

From: Landry, Jean
Sent: May-19-17 3:04 PM
To: Northcott, Jennifer
Cc: Krohn, Martha; White, Andrea
Subject: RE: 233/17 HQ-ML: ATLANTIC MACKEREL TOTAL ALLOWABLE CATCH 2017

Thanks Jennifer,

I know that my staff contributed to them but yes, the final version should come to us for final approval.

Jean Landry

Director , Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Jean.Landry@dfo-mpo.gc.ca / Tel: 613-993-0029

Directeur, Sciences halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Jean.Landry@dfo-mpo.gc.ca / Tél. : 613-993-0029

<< OLE Object: Picture (Device Independent Bitmap) >>

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De : Northcott, Jennifer
Envoyé : 19 mai 2017 14:16
À : Landry, Jean <Jean.Landry@dfo-mpo.gc.ca>
Cc : Krohn, Martha <Martha.Krohn@dfo-mpo.gc.ca>
Objet : FW: 233/17 HQ-ML: ATLANTIC MACKEREL TOTAL ALLOWABLE CATCH 2017

Hi Jean:

The mackerel lines are moving through approvals in EFM. Please let me know if you have any comments. I understand that Martha provided comments already. It is not going through science for formal approval, but if you think it should, please let me know.

Jennifer

From: ComApproval / Approbation (DFO/MPO)
Sent: May-19-17 12:16 PM
To: Beamish, Kayla
Cc: Walker-Sisttie, Rhonda; Horgan, Carole; Nielsen, Ingrid; Smith, Kathleen; Lester, Brian; Krohn, Martha; Northcott, Jennifer; Stanek, Frank
Subject: CC: 233/17 HQ-ML: ATLANTIC MACKEREL TOTAL ALLOWABLE CATCH 2017

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ATLANTIC MACKEREL TOTAL ALLOWABLE CATCH 2017
<< Fichier: 233-17.pdf >>
MEDIA LINES

<< Fichier: ML_Mackerel_TAC.pdf >>
Thanks!

Elise Grundy
Communications Branch/ Direction générale des communications
613-949-9105 | facsimile/télécopieur 613-993-8277
elise.grundy@dfo-mpo.gc.ca
Fisheries and Oceans Canada | 200 Kent St. Ottawa, ON K1A 0E6
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Communications

APPROVAL FORM / FORMULAIRE D'APPROBATION

MEDIA LINES

Start Date:
Date d'initiation : 19-May-2017

233/17

Project Title & No:
Titre et no. de projet : **ATLANTIC MACKEREL TOTAL ALLOWABLE CATCH 2017**

Requested By:
Demandé par : **Communications**

FINAL DUE DATE:
ÉCHÉANCE : **24-May-2017** **IN MO**

SIMULTANEOUSLY / SIMULTANÉMENT

Title / Titre	Name / Nom	Date Sent: / Acheminé le	Signature:	Date:	Changes
Communications Advisor / Agente des communications	Kayla Beamish	19-May-2017	SIGNED/SIGNÉ	19-May-2017	☐
A/ Director, PASC / Directrice int., APCS	Ingrid Nielsen	19-May-2017	SIGNED/SIGNÉ	19-May-2017	☑
A/DG, Fisheries Resource Management / A/ DG, Gestion des ressources	Adam Burns	19-May-2017	SIGNED/SIGNÉ	31-Jul-2017	☑
DG, Ecosystems and Ocean Ecosystems	A. McPherson (12S029)	19-May-2017	SIGNED/SIGNÉ	23-May-2017	☑
A/ADM, Fisheries and Harbour Management / A/SMA, Gestion des pêches et des	Sylvie Lapointe (13W092)	31-Jul-2017		31 JUIL. 2017	☐
ADM, Ecosystems and Oceans Science	T. Swerdfager (15E195)				☐
DG, Communications / DG, Communications	Marian Hubley	AUG 0 3 2017	w/ traveller	Aug 3/17	☑
SADM, Strategic Policy / SMA Principale, politiques stratégiques	Anne Lamar	AUG 0 3 2017		AUG 0 3 2017	☑
Deputy Minister / Sous-ministre	Catherine Blewett	AUG 0 4 2017		Aug 08, 2017	☐
Minister / Ministre	Minister	AUG 0 8 2017	SIGNED/SIGNÉ	AUG 11 2017	☐

Rationale / Justification:

DFO will announce the 2017 Total Allowable Catch (TAC) decision for the Atlantic Mackerel fishery before the end of May (TBC) - could be announced at any point. The 2017 decision will be an increase from the 2016 TAC, and will include increased reporting requirements (which is likely to reduce undeclared/unreported). The decision may result in a negative reaction from stakeholders (industry, Indigenous groups, and Ecology Action Center.

CC: Brian Lester, Martha Krohn, Jennifer Northcott

Fisheries and Oceans Canada / Pêches et Océans Canada

For Pick-up / Pour la collecte
Tel: 8-613-913-5954
Email: XNCR, ComApproval/Approbation

003281

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MEDIA LINES

Atlantic Mackerel Total Allowable Catch 2017

Issue

On August 10, 2017, Fisheries and Oceans Canada (DFO) announced the 2017 Total Allowable Catch (TAC) decision for the Atlantic Mackerel fishery. The TAC for the commercial catch in 2017 was set at 10,000 tonnes, which is an increase from the 2016 TAC of 8,000 tonnes. Given increased reporting requirements, it is anticipated that undeclared/unreported catches will be significantly reduced this year. The Department can expect media calls on the decision, as industry's expectations were for a significant TAC increase; however their request was not supported by the science advice (which the Department has followed). We would expect that there will also be negative reaction from the Ecology Action Center and some Indigenous groups that suggested a reduced harvest level given the stock is assessed to be in the critical zone.

The Atlantic Mackerel Advisory Committee meeting took place on March 30, 2017 in Halifax, Nova Scotia. DFO chaired the meeting and participants included upwards of 60 stakeholders, including Indigenous groups, harvesters, processors, environmental non-government organizations, the four Atlantic Provinces, and Quebec.

Freeze on new commercial licenses: A temporary freeze is in effect as of July 27, 2017 on the issuance of new commercial mackerel licences for fixed and mobile gear, including on the addition of new gear types to existing commercial licences. The length of the freeze will depend on the outcome of the rebuilding plan developed by a joint working group that includes industry and Fisheries and Oceans Canada.

Judicial Review : On November 10, 2016, Fisheries and Oceans Canada received a judicial review application filed in the Federal Court by Barry Group Inc., Pride Ventures Inc., 67108 Newfoundland & Labrador Inc., and Gauvin and Noel Compagnie Inc. The Applicants are challenging the Minister's decisions in relation to the closure of the Atlantic Mackerel Fishery in all areas in October 2016. The Applicants submit that the decisions effectively prevented the over 65' fleet (to which they belong) to harvest their share of the total allowable catch etc. The case has not yet been heard.

Media lines

- The 2017 Total Allowable Catch for the commercial fishery is set at 10,000 tonnes under a one-year management plan. This increase recognizes both the projected increases in the biomass over the coming year and the commitment to address unreported landings in the fishery.

- Fisheries management decisions for all stocks, including Atlantic mackerel include consideration of the best available science as well as input from Indigenous groups,

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harvesters, processors, environmental non-government organizations and the provinces.

- The Department undertook a new and detailed stock assessment for Atlantic mackerel this spring. This new assessment was discussed with members of the Atlantic Mackerel Advisory Committee on March 30, 2017 and input from stakeholders played an important role in the Department's TAC decision.

- While the science assessment has shown some signs of slight improvement in the stock, the stock assessment indicates that the stock remains in the critical zone under DFO's Precautionary Approach framework.

- The established harvest level allows for a greater than 75% probability that the stock biomass will continue to increase at the established harvest level. This corresponds to a high probability of growth and reflects the Department's commitment to the Precautionary Approach. With a commercial TAC of 10,000 tonnes and estimates of undeclared landings from other sources (e.g. bait and recreational fishery), there would be a greater than a 75% probability of the biomass increasing over the next two years.

- Fisheries and Oceans Canada is committed to balancing economic opportunity and financial stability of the Atlantic mackerel fishery while promoting the sustainability of this resource.

- The Department has established a one-year TAC in line with the industry request to revisit the harvest level at the end of the 2017 fishery.

If pressed on how the decision was made:

- Management decisions for this fishery consider long-term conservation and sustainability of the stock and take into account the best available science, the Department's management plan, and views expressed by stakeholders during consultations.

- Industry views are that the overall biomass is significantly larger than the science would indicate based on what they experienced in the 2016 fishery.

- The Department has initiated a DFO and industry rebuilding plan working group for this stock that will meet over the coming year to develop a plan for consideration by the Atlantic Mackerel Advisory Committee. This will support rebuilding the stock into the Healthy Zone of the Precautionary Approach Framework

If pressed on why TAC was announced after fishery was underway:

- The Department delayed announcement of the TAC for this year in order to evaluate the effectiveness of the new catch monitoring instituted for the fishery in the southern Gulf (100% hail of catch with 25% dockside monitoring). This new

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system provides more real-time harvest information and it should result in less undeclared catch.

If pressed on 2017 temporary freeze on new commercial licenses:

- While the science assessment has shown some signs of improvement in the Atlantic Mackerel stock, it remains in the critical zone under DFO's Precautionary Approach framework.

- A freeze on the issuance of new commercial mackerel licences for fixed and mobile gear, including on the addition of new gear types to existing commercial licences, will stabilize fishing effort for this fishery.

- The Department has also initiated a joint working group between DFO and industry. This joint working group will meet over the coming year to develop a stock rebuilding plan for consideration by the Atlantic Mackerel Advisory Committee.

- The length of the freeze will depend on the outcome of the rebuilding plan developed by the working group. The group will discuss the licencing freeze and additional management measures to support the rebuilding of the stock.

If pressed on judicial review:

- The Department will not comment on this matter, as it is currently before the Court.

Spokesperson: Adam Burns

Program Contact: Brian Lester, Adam Burns

Communications Contact: Kayla Beamish

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Taché, Hélène

From: Beamish, Kayla
Sent: May-19-17 12:35 PM
To: ComApproval / Approbation (DFO/MPO)
Subject: Re: 233/17 HQ : ML : Mackerel - Management Decision 2017

You're the best - thank you!

Sent from my BlackBerry 10 smartphone on the Rogers network.

From: ComApproval / Approbation (DFO/MPO)
Sent: Friday, May 19, 2017 12:20 PM
To: Beamish, Kayla
Subject: RE: 233/17 HQ : ML : Mackerel - Management Decision 2017

Hi Kayla,

Just an FYI – Frank had one small spacing change in this document so I made it myself so the docket could keep moving.

Thanks,

Elise

From: Kayla.Beamish@dfo-mpo.gc.ca [mailto:Kayla.Beamish@dfo-mpo.gc.ca]
Sent: May-18-17 4:56 PM
To: ComApproval / Approbation (DFO/MPO)
Subject: 233/17 HQ : ML : Mackerel - Management Decision 2017

Region: Headquarters	**Sector(s) Involved:** Ecosystems and Fisheries Management
Products: Media Lines	**Product linked to Major Initiative?** No
Topic: Mackerel - Management Decision 2017	
Responsible Comm. Officer/Author Name: Kayla Beamish	**Sender's Email:** Kayla.Beamish@dfo-mpo.gc.ca
Document filepath: W:\CAP\HQ\2017\EFM\FM\ML_Mackerel_TAC.docx	
Date due by: 2017-05-24	
Date to be released: 2017-05-24	
To be approved at HQ by: Frank Stanek (A/Dir) Adam Burns Sylvie Lapointe Rhonda Walker-Sisttie Anne Lamar DMO MO	
C.C. (electronic): Brian Lester Martha Krohn Jennifer Northcott	

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Additional instructions:
DFO will announce the 2017 Total Allowable Catch (TAC) decision for the Atlantic Mackerel fishery before the end of May (TBC) - could be announced at any point. The 2017 decision will be an increase from the 2016 TAC, and will include increased reporting requirements (which is likely to reduce undeclared/unreported). The decision may result in a negative reaction from stakeholders (industry, Indigenous groups, and Ecology Action Center.

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Bruxer, Shelby

From: Lester, Brian
Sent: May-19-17 11:40 AM
To: Jenkins, Randy
Subject: RE: Mino briefing on mackerel

Sorry I misread the email. Don't know status of memo but we have a draft mgt deck I will review this pm.

From: Jenkins, Randy
Sent: 2017–May-19 11:27 AM
To: Lester, Brian
Subject: FW: Mino briefing on mackerel

From: Burns, Adam
Sent: Friday, May 19, 2017 8:36 AM
To: Jenkins, Randy <Randy.Jenkins@dfo-mpo.gc.ca>
Subject: Fw: Mino briefing on mackerel

What's the status of this?

Sent from my BlackBerry 10 smartphone on the Rogers network.

From: Landry, Jean <Jean.Landry@dfo-mpo.gc.ca>
Sent: Friday, May 19, 2017 7:06 AM
To: Burns, Adam
Cc: McPherson, Arran; Northcott, Jennifer
Subject: TR: Mino briefing on mackerel

The French version of the Science deck has been shared with the region yesterday in order for Yves' team to review and finalize the deck. Any news about a decision on mackerel and a potential date for the technical media briefing? Are you preparing a deck for the management aspects?

Jean

Jean Landry
Director , Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Jean.Landry@dfo-mpo.gc.ca / Tel: 613-993-0029

Directeur, Sciences halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Jean.Landry@dfo-mpo.gc.ca / Tél. : 613-993-0029

Government of Canada / Gouvernement du Canada

Canada

De : Landry, Jean
Envoyé : 18 mai 2017 14:49
À : de Lafontaine, Yves <Yves.deLafontaine@dfo-mpo.gc.ca>

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s.16(2)

Cc : Krohn, Martha <Martha.Krohn@dfo-mpo.gc.ca>
Objet : TR: Mino briefing on mackerel

On a reçu la version française de la présentation.

Jean Landry
Director , Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Jean.Landry@dfo-mpo.gc.ca / Tel: 613-993-0029

Directeur, Sciences halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Jean.Landry@dfo-mpo.gc.ca / Tél. : 613-993-0029

Government of Canada / Gouvernement du Canada

Canada

De : Boudreau, Carol-Ann
Envoyé : 18 mai 2017 13:52
À : Landry, Jean <Jean.Landry@dfo-mpo.gc.ca>
Cc : Krohn, Martha <Martha.Krohn@dfo-mpo.gc.ca>
Objet : FW: Mino briefing on mackerel

Voilà!

From: Landry, Jean
Sent: May-17-17 5:49 AM
To: Boudreau, Carol-Ann
Cc: Krohn, Martha
Subject: Fw: Mino briefing on mackerel

Can you send to translation. Deadline should be COB tomorrow. Merci
Jean

Sent from my BlackBerry 10 smartphone on the Rogers network.

From: de Lafontaine, Yves <Yves.deLafontaine@dfo-mpo.gc.ca>
Sent: Tuesday, May 16, 2017 6:39 PM
To: Landry, Jean; White, Andrea
Cc: Doniol-Valcroze, Thomas; Gilbert, Michel
Subject: TR: Mino briefing on mackerel

Jean,

I don't have a French version because we were waiting for final approval of the deck before translation. I suggest you get the deck translated and we can double-check the translation here (Thomas and Michel in cc can handle it).

Yves de Lafontaine

Directeur, Institut Maurice Lamontagne
Directeur, Direction régionale des Sciences
Pêches et Océans Canada / Gouvernement du Canada
Yves.delafontaine@dfo-mpo.gc.ca Tél. : 418-775-0555 / tél. cell. : [redacted]

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s.16(2)

Director, Maurice Lamontagne Institute
Director, Sciences regional directorate
Fisheries and Oceans Canada / Government of Canada
Yves.delafontaine@dfo-mpo.gc.ca Tel : 418-775-0555 / Cel. : [redacted]



De : Landry, Jean
Envoyé : 16 mai 2017 12:23
À : White, Andrea <Andrea.White@dfo-mpo.gc.ca>; de Lafontaine, Yves <Yves.deLafontaine@dfo-mpo.gc.ca>
Cc : Krohn, Martha <Martha.Krohn@dfo-mpo.gc.ca>; Marentette, Julie <Julie.Marentette@dfo-mpo.gc.ca>; Burns, Adam <Adam.Burns@dfo-mpo.gc.ca>; Lester, Brian <Brian.Lester@dfo-mpo.gc.ca>; Northcott, Jennifer <Jennifer.Northcott@dfo-mpo.gc.ca>; Perron, Heloise <Heloise.Perron@dfo-mpo.gc.ca>
Objet : TR: Mino briefing on mackerel

Andy,

Attached is the draft deck for the potential technical media briefing on mackerel. Below Martha has provided few suggestions to Quebec Science's team. You may want to provide this deck to Arran when she is back. I have no major flag to raise about this deck. As discussed with Brian this morning, I take the opportunity of this email to share this **draft** deck with our EFM colleagues at HQ as I understand that they may want to prepare a deck covering the management aspects as part of this briefing (to be confirmed with EFM). I also CC our colleagues from COMM.

Next steps:

- Would be important to get some intel from yesterday's Min briefing on mackerel. Is this still the plan to conduct such briefing and if so, when and where? On this matter, Yves and I had a preliminary chat on the location and Halifax was mentioned as an option (one technical briefing in French and English in one location). Can you please check with ADMO about the next steps as Yves' team will need to know and plan accordingly. Adam: any thoughts on this?

Yves: Est-ce que tu as une version française en préparation? Sinon, on peut s'en occuper ici. Tu n'as qu'à m'expédier la version finale anglaise et on procédera. Nous t'expédierons la version française pour validation par ton équipe.

Jean
Jean Landry
Director , Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Jean.Landry@dfo-mpo.gc.ca / Tel: 613-993-0029

Directeur, Sciences halieutiques

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Pêches et Océans Canada / Gouvernement du Canada
Jean.Landry@dfo-mpo.gc.ca / Tél. : 613-993-0029

Government of Canada Gouvernement du Canada

Canada

De : Krohn, Martha
Envoyé : 15 mai 2017 16:30
À : Doniol-Valcroze, Thomas <Thomas.Doniol-Valcroze@dfo-mpo.gc.ca>; Castonguay, Martin <Martin.Castonguay@dfo-mpo.gc.ca>
Cc : Gilbert, Michel <Michel.Gilbert@dfo-mpo.gc.ca>; Landry, Jean <Jean.Landry@dfo-mpo.gc.ca>; Marentette, Julie <Julie.Marentette@dfo-mpo.gc.ca>
Objet : RE: Mino briefing on mackerel

Hi Thomas and Martin,

The presentation looks great, looks like the right level for a media briefing. I am sure the will be very interested. A couple small points for your consideration from myself and Julie:

Slide 12: the official English translation of summary bullets used "facilitate" recovery ("maximize" recovery would be no fishing?)
Slide 3: typo, additional should have one n
Slide 5: Is it worth mentioning that some undeclared mackerel may also be caught by the American fishery? This is mentioned on slide 3 so maybe don't need to point it out twice.

Would you have the decision table handy at the media briefing in case there are questions about probabilities of growth for other TAC levels?

Jean may have something to add.

Merci!
Martha

From: de Lafontaine, Yves
Sent: May-12-17 11:11 AM
To: Landry, Jean; Krohn, Martha
Cc: Vincent, Patrick; Doniol-Valcroze, Thomas; Castonguay, Martin; Gilbert, Michel
Subject: TR: Mino briefing on mackerel

Bonjour Martha et Jean,

Voici la dernière version du deck de breffage pour le maquereau ajusté en fonction des scénarios de TAC à 10,000 t. En cas de questions, n'hésitez pas à appeler.
Martin et Thomas sont en route aujourd'hui de retour des USA et seront disponibles lundi matin pour toute discussion du dossier.

Yves de Lafontaine

Directeur, Institut Maurice Lamontagne

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s.16(2)

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Yves.delafontaine@dfo-mpo.gc.ca Tél. : 418-775-0555 / tél. cell. : [redacted]

Director, Maurice Lamontagne Institute
Director, Sciences regional directorate
Fisheries and Oceans Canada / Government of Canada
Yves.delafontaine@dfo-mpo.gc.ca Tel : 418-775-0555 / Cel. : [redacted]



De : Gilbert, Michel
Envoyé : 12 mai 2017 10:59
À : Doniol-Valcroze, Thomas <Thomas.Doniol-Valcroze@dfo-mpo.gc.ca>; Castonguay, Martin <Martin.Castonguay@dfo-mpo.gc.ca>
Cc : Racine, Sylvi <Sylvi.Racine@dfo-mpo.gc.ca>; de Lafontaine, Yves <Yves.deLafontaine@dfo-mpo.gc.ca>; Landry, Jean <Jean.Landry@dfo-mpo.gc.ca>
Objet : RE: Mino briefing on mackerel

Merci Thomas !

Nous avons quelques petites corrections mineurs (éditoriales) et Yves va la transférer à Jean Landry sous peu. Prenez note que mon message ce matin ne contenait pas la bonne présentation et j'ai rectifié le tir avec Yves. Toutes mes excuses !

Prenez note enfin qu'il y aura un appel avec le ministre sur cette question lundi matin à 9h30 et il est crucial que toi et/ou Martin soyez présents au bureau de Yves à ce moment pour répondre à des questions techniques s'il y a lieu.

Merci à l'avance et bon retour !

Michel G.

Michel Gilbert, M. Sc.
Directeur / Director
Direction des sciences pélagiques et écosystémiques / Pelagic and Ecosystem Science Branch
Direction régionale des Sciences / Regional Science Directorate
Pêches et Océans Canada / Fisheries and Oceans Canada
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Mont-Joli, Québec, Canada G5H 3Z4
Tél. / Tel. : (418) 775-0604
Téléc. / Fax : (418) 775-0718
Courriel / E-mail : michel.gilbert@dfo-mpo.gc.ca
http://www.qc.dfo-mpo.gc.ca/iml

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De : Doniol-Valcroze, Thomas
Envoyé : 11 mai 2017 22:28
À : de Lafontaine, Yves; Gilbert, Michel; Castonguay, Martin
Cc : Racine, Sylvi
Objet : RE: Mino briefing on mackerel

Bonsoir Yves,

J'ai intégré tes commentaires et ceux de Michel dans cette version. J'espère que c'est mieux comme ça.

Il est peut-être temps de demander leur avis à l'équipe de Jean?

Thomas

De : de Lafontaine, Yves
Envoyé : 11 mai 2017 18:00
À : Doniol-Valcroze, Thomas; Gilbert, Michel; Castonguay, Martin
Cc : Racine, Sylvi
Objet : Re: Mino briefing on mackerel

Bonjour à tous,

Ou en sommes-nous avec ce breffage? Peut-on avoir une nouvelle version car nous devons finaliser pour demain au bureau de Ottawa. Svp me transmettre votre nouvelle version.

Envoyé de mon smartphone BlackBerry 10 sur le réseau Bell.

De: de Lafontaine, Yves
Envoyé: lundi 8 mai 2017 22:33
À: Doniol-Valcroze, Thomas; Gilbert, Michel; Castonguay, Martin
Cc: Racine, Sylvi
Objet: RE: Mino briefing on mackerel

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Mes commentaires.

Yves de Lafontaine

Directeur, Institut Maurice Lamontagne
Directeur, Direction régionale des Sciences
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Yves.delafontaine@dfo-mpo.gc.ca Tél. : 418-775-0555 / tél. cell. : [redacted]

Director, Maurice Lamontagne Institute
Director, Sciences regional directorate
Fisheries and Oceans Canada / Government of Canada
Yves.delafontaine@dfo-mpo.gc.ca Tel : 418-775-0555 / Cel. : [redacted]



De : Doniol-Valcroze, Thomas
Envoyé : 8 mai 2017 21:40
À : Gilbert, Michel <Michel.Gilbert@dfo-mpo.gc.ca>
Cc : Racine, Sylvi <Sylvi.Racine@dfo-mpo.gc.ca>; Castonguay, Martin <Martin.Castonguay@dfo-mpo.gc.ca>; de Lafontaine, Yves <Yves.deLafontaine@dfo-mpo.gc.ca>
Objet : RE: Mino briefing on mackerel

Michel,

Voici une première ébauche de breffage technique sur le maquereau, basée sur des diapos de Julie Marentette et sur notre présentation à AMAC. Il faudra les adapter en fonction de la décision du ministre.

Dites-nous ce que vous en pensez.

Thomas

De : Gilbert, Michel
Envoyé : 8 mai 2017 08:54
À : Castonguay, Martin
Cc : de Lafontaine, Yves; Racine, Sylvi; Doniol-Valcroze, Thomas
Objet : RE: Mino briefing on mackerel

Martin,

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s.16(2)

STP me contacter aujourd'hui à ce sujet. Étant donné votre voyage cette semaine à Woodshole, il faut se coordonner avec Sylvi le plus rapidement possible pour préparer le matériel requis.

Merci à l'avance !

Michel G.

Michel Gilbert, M. Sc.
Directeur / Director
Direction des sciences pélagiques et écosystémiques / Pelagic and Ecosystem Science Branch
Direction régionale des Sciences / Regional Science Directorate
Pêches et Océans Canada / Fisheries and Oceans Canada
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Tél. / Tel. : (418) 775-0604
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Courriel / E-mail : michel.gilbert@dfo-mpo.gc.ca
http://www.qc.dfo-mpo.gc.ca/iml

Ma langue, une question de respect
My language, a matter of respect

De : de Lafontaine, Yves
Envoyé : 5 mai 2017 18:05
À : Gilbert, Michel; Racine, Sylvi; Castonguay, Martin
Objet : TR: Mino briefing on mackerel

Bonjour

Le dossier « maquereau » requiert un breffage technique pour les média afin de répondre aux questions éventuels suite à la sortie de l'avis ministériel du TAC. Jean Landry va envoyer un exemple de ce qui a été fait pour Terre-Neuve récemment (crevette) et qu'on pourra utiliser. L'équipe de Jean peut aussi nous donner un coup de pouce et doit absolument voir le produit final avant la sortie. Donc on travaille de concert avec eux pour préparer et finaliser le matériel.
Le ministre ferait l'annonce le 15 ou 16 mai prochain, ce qui laisse un peu de temps, mais selon la décision finale de la gestion des pêches, il faudra ajuster le discours et les Q&R.

SVP coordonner la production entre vous trois. Je vous transmets info dès réception.

Yves de Lafontaine

Directeur, Institut Maurice Lamontagne
Directeur, Direction régionale des Sciences
Pêches et Océans Canada / Gouvernement du Canada
Yves.delafontaine@dfo-mpo.gc.ca Tél. : 418-775-0555 / tél. cell. : [redacted]

Director, Maurice Lamontagne Institute

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Director, Sciences regional directorate
Fisheries and Oceans Canada / Government of Canada
Yves.delafontaine@dfo-mpo.gc.ca Tel : 418-775-0555 / Cel. : s.16(2)



De : Landry, Jean
Envoyé : 4 mai 2017 17:52
À : Vézina, Alain <Alain.Vezina@dfo-mpo.gc.ca>; de Lafontaine, Yves <Yves.deLafontaine@dfo-mpo.gc.ca>
Cc : Chin, Melanie <Melanie.Chin@dfo-mpo.gc.ca>; White, Andrea <Andrea.White@dfo-mpo.gc.ca>; Northcott, Jennifer <Jennifer.Northcott@dfo-mpo.gc.ca>; Krohn, Martha <Martha.Krohn@dfo-mpo.gc.ca>
Objet : Fw: Mino briefing on mackerel

Alain: on va aussi devoir produire un court texte sur les progres realises avec l,avaluation sur le maquereau. J.anticipe un breffage avec le ministre sur le maqureau pour le 15 ou 16 mai (TBC).

Yves: un breffage technique pour les media a été demande étant donné la sensibilite liee a cet enjeu. Details a venir mais on devrait anticiper un breffage en français et un en anglais.

Jean

Sent from my BlackBerry 10 smartphone on the Rogers network.

From: Burns, Adam <Adam.Burns@dfo-mpo.gc.ca>
Sent: Thursday, May 4, 2017 5:11 PM
To: French, Christopher
Cc: Lapointe, Sylvie; Landry, Jean
Subject: Mino briefing on mackerel

Document Released Under the Access to Information Act / Document divulgué en vertu de la Loi sur l'accès à l'information.

Hi,

We had a mino briefing on mackerel science today where Jean Landry, Martha Krohn and I reviewed the improvements which have occurred in mackerel science over the last year as well as management improvements related to monitoring and reporting which are being implemented for the coming season.

It went well, the only outcome being a request from mino (Sheldon) that the dept consider a joint technical briefing on science and management when the decision comes out -- perhaps one in English and one in French.

AB
Sent from my BlackBerry 10 smartphone on the Rogers network.

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Krohn, Martha

From: Landry, Jean
Sent: May-23-17 6:48 AM
To: Krohn, Martha; McPherson, Arran
Subject: TR: Mino briefing on mackerel
Attachments: Atlantic Mackerel Briefing_English.ppt; Atlantic Mackerel Briefing_Francais.ppt

Categories: Red Category

Hello Martha, please let me know if any issue with this deck. Likely not as we have seen the previous versions but sharing with you just in case.

Arran: FYI

Jean

Jean Landry

Director , Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Jean.Landry@dfo-mpo.gc.ca / Tel: 613-993-0029

Directeur, Sciences halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Jean.Landry@dfo-mpo.gc.ca / Tél. : 613-993-0029

Government of Canada Gouvernement du Canada

Canada

De : de Lafontaine, Yves
Envoyé : 19 mai 2017 17:16
À : Krohn, Martha <Martha.Krohn@dfo-mpo.gc.ca>; Landry, Jean <Jean.Landry@dfo-mpo.gc.ca>
Cc : Doniol-Valcroze, Thomas <Thomas.Doniol-Valcroze@dfo-mpo.gc.ca>; Castonguay, Martin <Martin.Castonguay@dfo-mpo.gc.ca>; Gilbert, Michel <Michel.Gilbert@dfo-mpo.gc.ca>; Racine, Sylvi <Sylvi.Racine@dfo-mpo.gc.ca>
Objet : TR: Mino briefing on mackerel

Martha et Jean,
Voici les versions anglaise et française après révision et validation par nos équipes ici. Sincère merci à Thomas et Sylvi pour leur contribution et révision.

A vous de jouer maintenant!

Yves de Lafontaine

Directeur, Institut Maurice Lamontagne

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Directeur, Direction régionale des Sciences
Pêches et Océans Canada / Gouvernement du Canada
Yves.delafontaine@dfo-mpo.gc.ca Tél. : 418-775-0555 / tél. cell. : [redacted]

Director, Maurice Lamontagne Institute
Director, Sciences regional directorate
Fisheries and Oceans Canada / Government of Canada
Yves.delafontaine@dfo-mpo.gc.ca Tel : 418-775-0555 / Cel. : [redacted]

J'ai 30 ans / I'm 30 years old
INSTITUT MAURICE-LAMONTAGNE
MAURICE LAMONTAGNE INSTITUTE

De : Doniol-Valcroze, Thomas
Envoyé : 19 mai 2017 14:05
À : de Lafontaine, Yves <Yves.deLafontaine@dfo-mpo.gc.ca>
Cc : Gilbert, Michel <Michel.Gilbert@dfo-mpo.gc.ca>; Racine, Sylvi <Sylvi.Racine@dfo-mpo.gc.ca>
Objet : RE: Mino briefing on mackerel

Bonjour,

Voici les versions anglaises et françaises retravaillées. J'ai vérifié et corrigé la traduction française, intégré les commentaires de Martha et Julie sur la version anglaise ainsi que ceux de Sylvi sur la version française, et refait des figures dans la bonne langue pour les deux fichiers.

Thomas

De : Racine, Sylvi
Envoyé : 18 mai 2017 15:43
À : Doniol-Valcroze, Thomas
Cc : Gilbert, Michel; de Lafontaine, Yves
Objet : RE: Mino briefing on mackerel

Thomas,
Je te laisse le soin de vérifier la concordance. Je n'ai pas lu de mauvaise traduction mais je relirai une fois la concordance examinée.
Il faudrait signaler que :

- La présentation en français a été montée dans le gabarit en anglais (drapeau, texte anglais, texte français) Le gabarit en français est disponible ici http://intra.dfo-mpo.gc.ca/IntraCom/graphic/powerpoint_f.ppt
- Page 3. L'interligne du dernier énoncé doit être corrigé
- le tableau de la page 10 Modèle statistique en français. Un titre a été inséré dans le tableau juste avec les traits et leur légende. Ce titre n'est pas dans l'anglais.
- Il y a aussi une coquille de tabulation au dernier énoncé à la page 11.
- Il faudra replacer les éléments de la page titre pour éviter l'empiétement du texte sur le bandeau bleu. Pareil à la page 4 Évaluation de 2014 et en page 8 Relevé des oeufs.
- À la page 6, la mise en page ne met pas le graphique en valeur
- Tableau à la page 11. Le texte inséré dans et sous le tableau empiète sur la courbe. Peut-on corriger ceci?

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Bonne lecture!

Sylvi

De : de Lafontaine, Yves
Envoyé : 18 mai 2017 15:07
À : Racine, Sylvi; Doniol-Valcroze, Thomas
Cc : Gilbert, Michel
Objet : TR: Mino briefing on mackerel

Votre révision SVP pour éviter les incohérences ou mauvaise traduction.

Yves de Lafontaine

Directeur, Institut Maurice Lamontagne
Directeur, Direction régionale des Sciences
Pêches et Océans Canada / Gouvernement du Canada
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Director, Maurice Lamontagne Institute
Director, Sciences regional directorate
Fisheries and Oceans Canada / Government of Canada
Yves.delafontaine@dfo-mpo.gc.ca Tel : 418-775-0555 / Cel. : [redacted]

J'ai 30 ans / I'm 30 years old
INSTITUT MAURICE-LAMONTAGNE
MAURICE LAMONTAGNE INSTITUTE

De : Landry, Jean
Envoyé : 18 mai 2017 14:49
À : de Lafontaine, Yves <Yves.deLafontaine@dfo-mpo.gc.ca>
Cc : Krohn, Martha <Martha.Krohn@dfo-mpo.gc.ca>
Objet : TR: Mino briefing on mackerel

On a reçu la version française de la présentation.

Jean Landry

Director , Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Jean.Landry@dfo-mpo.gc.ca / Tel: 613-993-0029

Directeur, Sciences halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Jean.Landry@dfo-mpo.gc.ca / Tél. : 613-993-0029

Government of Canada / Gouvernement du Canada

Canada

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De : Boudreau, Carol-Ann
Envoyé : 18 mai 2017 13:52
À : Landry, Jean <Jean.Landry@dfo-mpo.gc.ca>
Cc : Krohn, Martha <Martha.Krohn@dfo-mpo.gc.ca>
Objet : FW: Mino briefing on mackerel

Voilà!

From: Landry, Jean
Sent: May-17-17 5:49 AM
To: Boudreau, Carol-Ann
Cc: Krohn, Martha
Subject: Fw: Mino briefing on mackerel

Can you send to translation. Deadline should be COB tomorrow. Merci
Jean

Sent from my BlackBerry 10 smartphone on the Rogers network.

From: de Lafontaine, Yves <Yves.deLafontaine@dfo-mpo.gc.ca>
Sent: Tuesday, May 16, 2017 6:39 PM
To: Landry, Jean; White, Andrea
Cc: Doniol-Valcroze, Thomas; Gilbert, Michel
Subject: TR: Mino briefing on mackerel

Jean,

I don't have a French version because we were waiting for final approval of the deck before translation. I suggest you get the deck translated and we can double-check the translation here (Thomas and Michel in cc can handle it).

Yves de Lafontaine

Directeur, Institut Maurice Lamontagne
Directeur, Direction régionale des Sciences
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Director, Maurice Lamontagne Institute
Director, Sciences regional directorate
Fisheries and Oceans Canada / Government of Canada
Yves.delafontaine@dfo-mpo.gc.ca Tel : 418-775-0555 / Cel. : [redacted]

Document Released Under the Access to Information Act / Document divulgué en vertu de la Loi sur l'accès à l'information.

De : Landry, Jean
Envoyé : 16 mai 2017 12:23
À : White, Andrea <Andrea.White@dfo-mpo.gc.ca>; de Lafontaine, Yves <Yves.deLafontaine@dfo-mpo.gc.ca>
Cc : Krohn, Martha <Martha.Krohn@dfo-mpo.gc.ca>; Marentette, Julie <Julie.Marentette@dfo-mpo.gc.ca>; Burns, Adam <Adam.Burns@dfo-mpo.gc.ca>; Lester, Brian <Brian.Lester@dfo-mpo.gc.ca>; Northcott, Jennifer <Jennifer.Northcott@dfo-mpo.gc.ca>; Perron, Heloise <Heloise.Perron@dfo-mpo.gc.ca>
Objet : TR: Mino briefing on mackerel

Andy,

Attached is the draft deck for the potential technical media briefing on mackerel. Below Martha has provided few suggestions to Quebec Science's team. You may want to provide this deck to Arran when she is back. I have no major flag to raise about this deck. As discussed with Brian this morning, I take the opportunity of this email to share this **draft** deck with our EFM colleagues at HQ as I understand that they may want to prepare a deck covering the management aspects as part of this briefing (to be confirmed with EFM). I also CC our colleagues from COMM.

Next steps:

- Would be important to get some intel from yesterday's Min briefing on mackerel. Is this still the plan to conduct such briefing and if so, when and where? On this matter, Yves and I had a preliminary chat on the location and Halifax was mentioned as an option (one technical briefing in French and English in one location). Can you please check with ADMO about the next steps as Yves' team will need to know and plan accordingly. Adam: any thoughts on this?

Yves: Est-ce que tu as une version française en préparation? Sinon, on peut s'en occuper ici. Tu n'as qu'à m'expédier la version finale anglaise et on procédera. Nous t'expédierons la version française pour validation par ton équipe.

Jean
Jean Landry
Director , Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Jean.Landry@dfo-mpo.gc.ca / Tel: 613-993-0029

Directeur, Sciences halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Jean.Landry@dfo-mpo.gc.ca / Tél. : 613-993-0029

Document Released Under the Access to Information Act / Document divulgué en vertu de la Loi sur l'accès à l'information.

Government of Canada / Gouvernement du Canada — Canada

De : Krohn, Martha
Envoyé : 15 mai 2017 16:30
À : Doniol-Valcroze, Thomas <Thomas.Doniol-Valcroze@dfo-mpo.gc.ca>; Castonguay, Martin <Martin.Castonguay@dfo-mpo.gc.ca>
Cc : Gilbert, Michel <Michel.Gilbert@dfo-mpo.gc.ca>; Landry, Jean <Jean.Landry@dfo-mpo.gc.ca>; Marentette, Julie <Julie.Marentette@dfo-mpo.gc.ca>
Objet : RE: Mino briefing on mackerel

Hi Thomas and Martin,

The presentation looks great, looks like the right level for a media briefing. I am sure the will be very interested.
A couple small points for your consideration from myself and Julie:

Slide 12: the official English translation of summary bullets used "facilitate" recovery ("maximize" recovery would be no fishing?)
Slide 3: typo, additional should have one n
Slide 5: Is it worth mentioning that some undeclared mackerel may also be caught by the American fishery? This is mentioned on slide 3 so maybe don't need to point it out twice.

Would you have the decision table handy at the media briefing in case there are questions about probabilities of growth for other TAC levels?

Jean may have something to add.

Merci!
Martha

From: de Lafontaine, Yves
Sent: May-12-17 11:11 AM
To: Landry, Jean; Krohn, Martha
Cc: Vincent, Patrick; Doniol-Valcroze, Thomas; Castonguay, Martin; Gilbert, Michel
Subject: TR: Mino briefing on mackerel

Bonjour Martha et Jean,

Voici la dernière version du deck de breffage pour le maquereau ajusté en fonction des scénarios de TAC à 10,000 t. En cas de questions, n'hésitez pas à appeler.
Martin et Thomas sont en route aujourd'hui de retour des USA et seront disponibles lundi matin pour toute discussion du dossier.

Yves de Lafontaine

Directeur, Institut Maurice Lamontagne
Directeur, Direction régionale des Sciences
Pêches et Océans Canada / Gouvernement du Canada
Yves.delafontaine@dfo-mpo.gc.ca Tél. : 418-775-0555 / tél. cell. : [redacted]

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Director, Maurice Lamontagne Institute
Director, Sciences regional directorate
Fisheries and Oceans Canada / Government of Canada
Yves.delafontaine@dfo-mpo.gc.ca Tel : 418-775-0555 / Cel. : [redacted]

J'ai 30 ans / I'm 30 years old
INSTITUT MAURICE-LAMONTAGNE
MAURICE LAMONTAGNE INSTITUTE

De : Gilbert, Michel
Envoyé : 12 mai 2017 10:59
À : Doniol-Valcroze, Thomas <Thomas.Doniol-Valcroze@dfo-mpo.gc.ca>; Castonguay, Martin <Martin.Castonguay@dfo-mpo.gc.ca>
Cc : Racine, Sylvi <Sylvi.Racine@dfo-mpo.gc.ca>; de Lafontaine, Yves <Yves.deLafontaine@dfo-mpo.gc.ca>; Landry, Jean <Jean.Landry@dfo-mpo.gc.ca>
Objet : RE: Mino briefing on mackerel

Merci Thomas !

Nous avons quelques petites corrections mineurs (éditoriales) et Yves va la transférer à Jean Landry sous peu. Prenez note que mon message ce matin ne contenait pas la bonne présentation et j'ai rectifié le tir avec Yves. Toutes mes excuses !

Prenez note enfin qu'il y aura un appel avec le ministre sur cette question lundi matin à 9h30 et il est crucial que toi et/ou Martin soyez présents au bureau de Yves à ce moment pour répondre à des questions techniques s'il y a lieu.

Merci à l'avance et bon retour !

Michel G.

Michel Gilbert, M. Sc.
Directeur / Director
Direction des sciences pélagiques et écosystémiques / Pelagic and Ecosystem Science Branch
Direction régionale des Sciences / Regional Science Directorate
Pêches et Océans Canada / Fisheries and Oceans Canada
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Mont-Joli, Québec, Canada G5H 3Z4
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Téléc. / Fax : (418) 775-0718
Courriel / E-mail : michel.gilbert@dfo-mpo.gc.ca
http://www.qc.dfo-mpo.gc.ca/iml

Ma langue, une question de respect / My language, a matter of respect

Document Released Under the Access to Information Act / Document divulgué en vertu de la Loi sur l'accès à l'information.

De : Doniol-Valcroze, Thomas
Envoyé : 11 mai 2017 22:28
À : de Lafontaine, Yves; Gilbert, Michel; Castonguay, Martin
Cc : Racine, Sylvi
Objet : RE: Mino briefing on mackerel

Bonsoir Yves,

J'ai intégré tes commentaires et ceux de Michel dans cette version. J'espère que c'est mieux comme ça.

Il est peut-être temps de demander leur avis à l'équipe de Jean?

Thomas

De : de Lafontaine, Yves
Envoyé : 11 mai 2017 18:00
À : Doniol-Valcroze, Thomas; Gilbert, Michel; Castonguay, Martin
Cc : Racine, Sylvi
Objet : Re: Mino briefing on mackerel

Bonjour à tous,

Ou en sommes-nous avec ce breffage? Peut-on avoir une nouvelle version car nous devons finaliser pour demain au bureau de Ottawa. Svp me transmettre votre nouvelle version.

Envoyé de mon smartphone BlackBerry 10 sur le réseau Bell.

De: de Lafontaine, Yves
Envoyé: lundi 8 mai 2017 22:33
À: Doniol-Valcroze, Thomas; Gilbert, Michel; Castonguay, Martin
Cc: Racine, Sylvi
Objet: RE: Mino briefing on mackerel

Mes commentaires.

Yves de Lafontaine

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Directeur, Institut Maurice Lamontagne
Directeur, Direction régionale des Sciences
Pêches et Océans Canada / Gouvernement du Canada
Yves.delafontaine@dfo-mpo.gc.ca Tél. : 418-775-0555 / tél. cell. : [redacted]

Director, Maurice Lamontagne Institute
Director, Sciences regional directorate
Fisheries and Oceans Canada / Government of Canada
Yves.delafontaine@dfo-mpo.gc.ca Tel : 418-775-0555 / Cel. : [redacted]



De : Doniol-Valcroze, Thomas
Envoyé : 8 mai 2017 21:40
À : Gilbert, Michel <Michel.Gilbert@dfo-mpo.gc.ca>
Cc : Racine, Sylvi <Sylvi.Racine@dfo-mpo.gc.ca>; Castonguay, Martin <Martin.Castonguay@dfo-mpo.gc.ca>; de Lafontaine, Yves <Yves.deLafontaine@dfo-mpo.gc.ca>
Objet : RE: Mino briefing on mackerel

Michel,

Voici une première ébauche de breffage technique sur le maquereau, basée sur des diapos de Julie Marentette et sur notre présentation à AMAC. Il faudra les adapter en fonction de la décision du ministre.

Dites-nous ce que vous en pensez.

Thomas

De : Gilbert, Michel
Envoyé : 8 mai 2017 08:54
À : Castonguay, Martin
Cc : de Lafontaine, Yves; Racine, Sylvi; Doniol-Valcroze, Thomas
Objet : RE: Mino briefing on mackerel

Martin,

STP me contacter aujourd'hui à ce sujet. Étant donné votre voyage cette semaine à Woodshole, il faut se coordonner avec Sylvi le plus rapidement possible pour préparer le matériel requis.

Merci à l'avance !

Document Released Under the Access to Information Act / Document divulgué en vertu de la Loi sur l'accès à l'information.

Michel G.

Michel Gilbert, M. Sc.
Directeur / Director
Direction des sciences pélagiques et écosystémiques / Pelagic and Ecosystem Science Branch
Direction régionale des Sciences / Regional Science Directorate
Pêches et Océans Canada / Fisheries and Oceans Canada
Institut Maurice-Lamontagne / Maurice Lamontagne Institute
850, Route de la Mer, C.P. 1000
Mont-Joli, Québec, Canada G5H 3Z4
Tél. / Tel. : (418) 775-0604
Téléc. / Fax : (418) 775-0718
Courriel / E-mail : michel.gilbert@dfo-mpo.gc.ca
http://www.qc.dfo-mpo.gc.ca/iml

Ma langue, une question de respect
My language, a matter of respect

De : de Lafontaine, Yves
Envoyé : 5 mai 2017 18:05
À : Gilbert, Michel; Racine, Sylvi; Castonguay, Martin
Objet : TR: Mino briefing on mackerel

Bonjour

Le dossier « maquereau » requiert un breffage technique pour les média afin de répondre aux questions éventuels suite à la sortie de l'avis ministériel du TAC. Jean Landry va envoyer un exemple de ce qui a été fait pour Terre-Neuve récemment (crevette) et qu'on pourra utiliser. L'équipe de Jean peut aussi nous donner un coup de pouce et doit absolument voir le produit final avant la sortie. Donc on travaille de concert avec eux pour préparer et finaliser le matériel.
Le ministre ferait l'annonce le 15 ou 16 mai prochain, ce qui laisse un peu de temps, mais selon la décision finale de la gestion des pêches, il faudra ajuster le discours et les Q&R.

SVP coordonner la production entre vous trois. Je vous transmets info dès réception.

Yves de Lafontaine

Directeur, Institut Maurice Lamontagne
Directeur, Direction régionale des Sciences
Pêches et Océans Canada / Gouvernement du Canada
Yves.delafontaine@dfo-mpo.gc.ca Tél. : 418-775-0555 / tél. cell. : [redacted]

Director, Maurice Lamontagne Institute
Director, Sciences regional directorate
Fisheries and Oceans Canada / Government of Canada
Yves.delafontaine@dfo-mpo.gc.ca Tel : 418-775-0555 / Cel. : [redacted]

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De : Landry, Jean
Envoyé : 4 mai 2017 17:52
À : Vézina, Alain <Alain.Vezina@dfo-mpo.gc.ca>; de Lafontaine, Yves <Yves.deLafontaine@dfo-mpo.gc.ca>
Cc : Chin, Melanie <Melanie.Chin@dfo-mpo.gc.ca>; White, Andrea <Andrea.White@dfo-mpo.gc.ca>; Northcott, Jennifer <Jennifer.Northcott@dfo-mpo.gc.ca>; Krohn, Martha <Martha.Krohn@dfo-mpo.gc.ca>
Objet : Fw: Mino briefing on mackerel

Alain: on va aussi devoir produire un court texte sur les progres realises avec l,avaluation sur le maquereau. J.anticipe un breffage avec le ministre sur le maqureau pour le 15 ou 16 mai (TBC).

Yves: un breffage technique pour les media a été demande étant donné la sensibilite liee a cet enjeu. Details a venir mais on devrait anticiper un breffage en français et un en anglais.

Jean

Sent from my BlackBerry 10 smartphone on the Rogers network.

From: Burns, Adam <Adam.Burns@dfo-mpo.gc.ca>
Sent: Thursday, May 4, 2017 5:11 PM
To: French, Christopher
Cc: Lapointe, Sylvie; Landry, Jean
Subject: Mino briefing on mackerel

Hi,

Document Released Under the Access to Information Act / Document divulgué en vertu de la Loi sur l'accès à l'information.

We had a mino briefing on mackerel science today where Jean Landry, Martha Krohn and I reviewed the improvements which have occurred in mackerel science over the last year as well as management improvements related to monitoring and reporting which are being implemented for the coming season.

It went well, the only outcome being a request from mino (Sheldon) that the dept consider a joint technical briefing on science and management when the decision comes out -- perhaps one in English and one in French.

AB
Sent from my BlackBerry 10 smartphone on the Rogers network.

Page 3309
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page 2728

Page 3310

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page 2730

Page 3311
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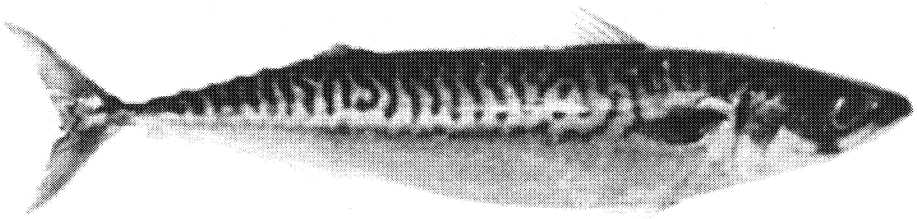
page 2738

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Pêches et Océans Canada | Fisheries and Oceans Canada

Séance d'information pour les médias

Évaluation du maquereau bleu (sous-régions 3 et 4 de l'OPANO)



Région du Québec

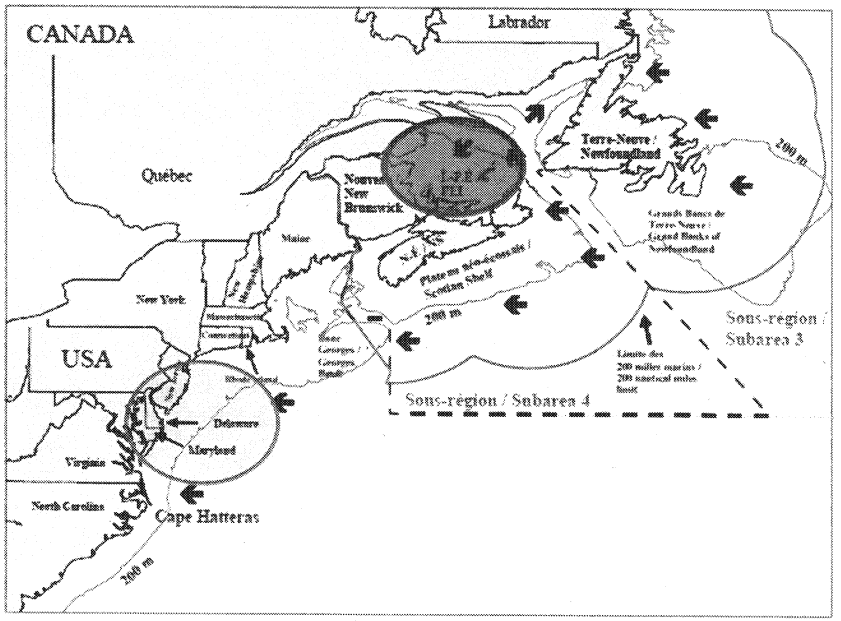
Mai 2017

Canada

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Préoccupations transfrontalières

- Zones de ponte du Nord + du Sud
- Distincts des stocks européens sur le plan génétique
- Les stocks américains et canadiens ne semblent pas être distincts l'un de l'autre sur le plan génétique.
- Proportion inconnue de maquereaux du Nord (canadiens) dans les débarquements américains
- Des travaux supplémentaires sont menés pour mieux comprendre la structure des stocks.



Canada

003316

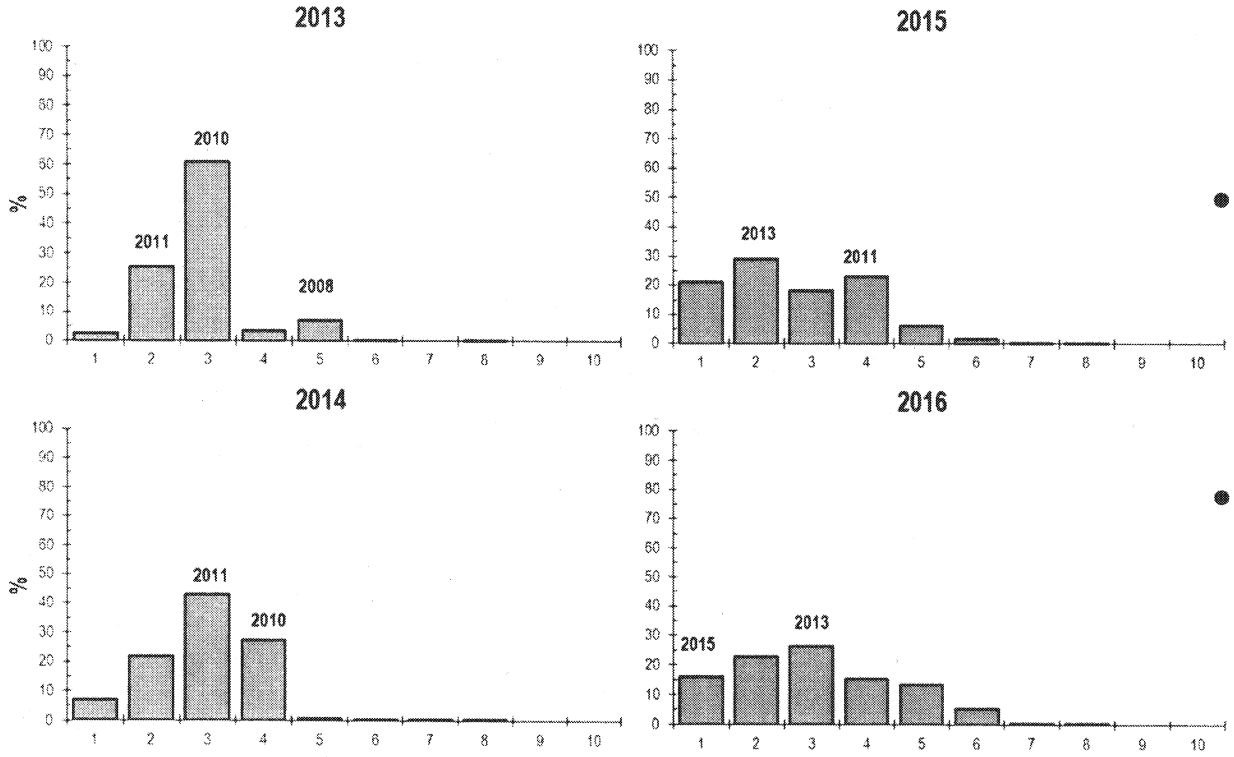
Document Released Under the Access to Information Act / Document divulgué en vertu de la Loi sur l'accès à l'information.

Incertitudes sur la pêche au maquereau

- Seuls les débarquements commerciaux sont déclarés.
- Des débarquements non-déclarés sont utilisés aux fins suivantes :
  - appât à des fins personnelles;
  - ventes entre pêcheurs;
  - usage récréatif;
  - mortalité par rejet, journaux de bord non remplis.
- Un sondage Internet relatif à l'usage récréatif et aux appâts laisse croire que les prises non-déclarées en 2016 étaient de l'ordre de **50 à 100 %** des prises déclarées.

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Structure par âge de 2013 à 2016



- La structure par âge est encore composée de jeunes poissons et insuffisance de poissons plus âgé (cinq ans et plus).
- Légère amélioration depuis 2013, augmentation du nombre de poissons âgés de cinq et six ans.

Canada

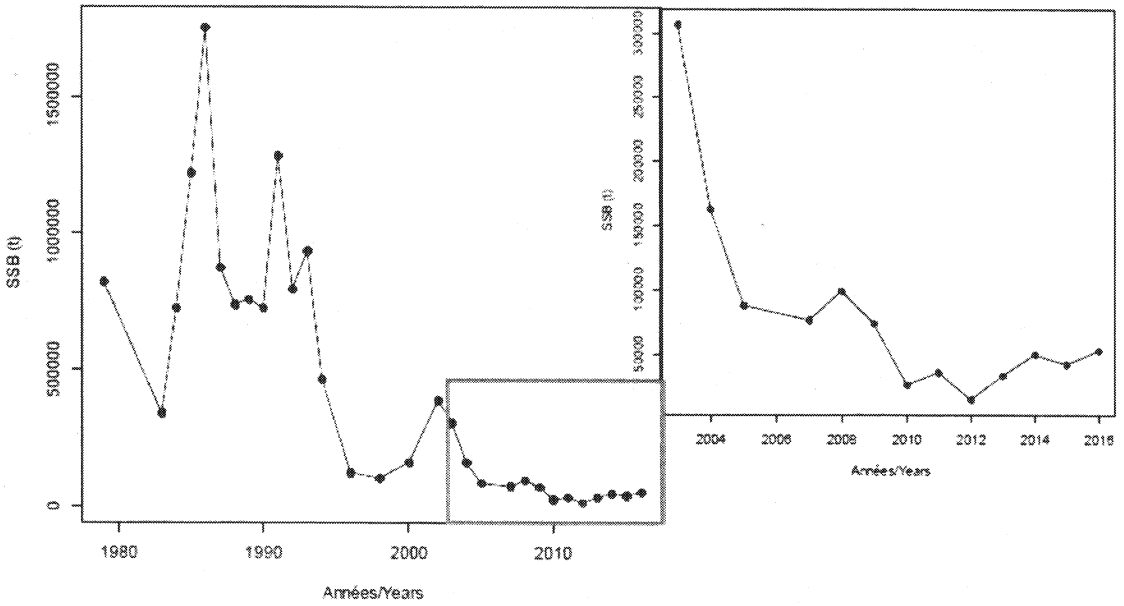
003318

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Indice d'abondance découlant du relevé des œufs

Selon les données sur les œufs, le maquereau bleu a atteint sa biomasse du stock reproducteur la plus faible en 2012 et affiche une légère hausse depuis.

Les estimations récentes demeurent bien inférieures aux niveaux d'abondance de plus de 750 000 tonnes signalés dans les années 1980.

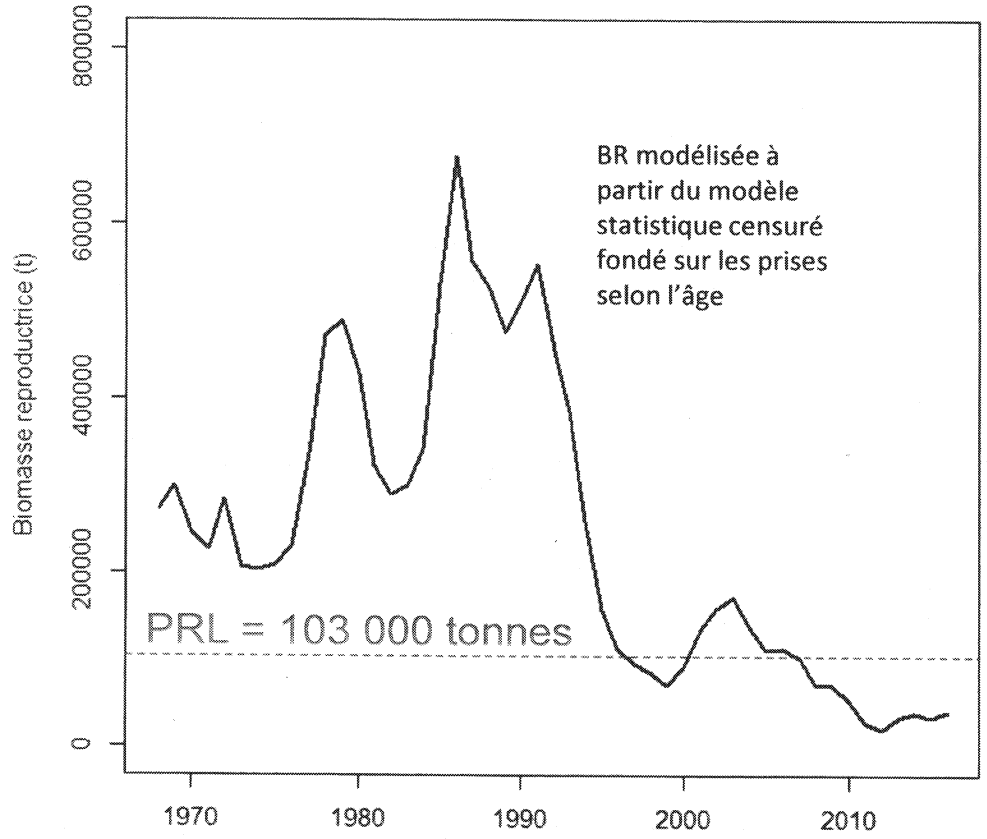


Canada

003319

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Mars 2017 – État du stock mis à jour



- Le nouveau modèle confirme que la biomasse du stock reproducteur de maquereau bleu a affiché une baisse en raison des taux d'exploitation élevés et qu'elle a atteint son niveau le plus faible en 2012 (20 000 tonnes). Selon le modèle, en 2016, la biomasse du stock reproducteur était de 40 000 tonnes.
- Le point de référence limite (PRL) pour ce stock est établi à 103 000 tonnes. Selon le modèle censuré, l'abondance des stocks en 2016 représentait environ 40 % du PRL de 103 000 tonnes.

→ Le stock se stiue encore profondément dans la zone critique.

Canada

003320

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Krohn, Martha

From: Krohn, Martha
Sent: May-24-17 10:48 AM
To: Doniol-Valcroze, Thomas
Cc: Castonguay, Martin; Marentette, Julie
Subject: RE: Mino briefing on mackerel

Categories: Red Category

I will leave that to you! given it is translated and late in the game it may be easier to speak to? Totally up to the experts! If you do add the figure, or make may related change, it would be great to have the final version.
Thanks Thomas!
Martha

From: Doniol-Valcroze, Thomas
Sent: May-24-17 10:03 AM
To: Krohn, Martha
Cc: Castonguay, Martin; Marentette, Julie
Subject: RE: Mino briefing on mackerel

Yes, skeptics can challenge our estimates of abundance, but it is hard to look at this figure and deny that the older fish have disappeared, which is a classic sign that overfishing has happened.

I'm not sure what you want us to do now. Do you suggest adding the figure to the media briefing deck?

Thomas

De : Krohn, Martha
Envoyé : 23 mai 2017 14:00
À : Doniol-Valcroze, Thomas
Cc : Castonguay, Martin; Marentette, Julie
Objet : RE: Mino briefing on mackerel

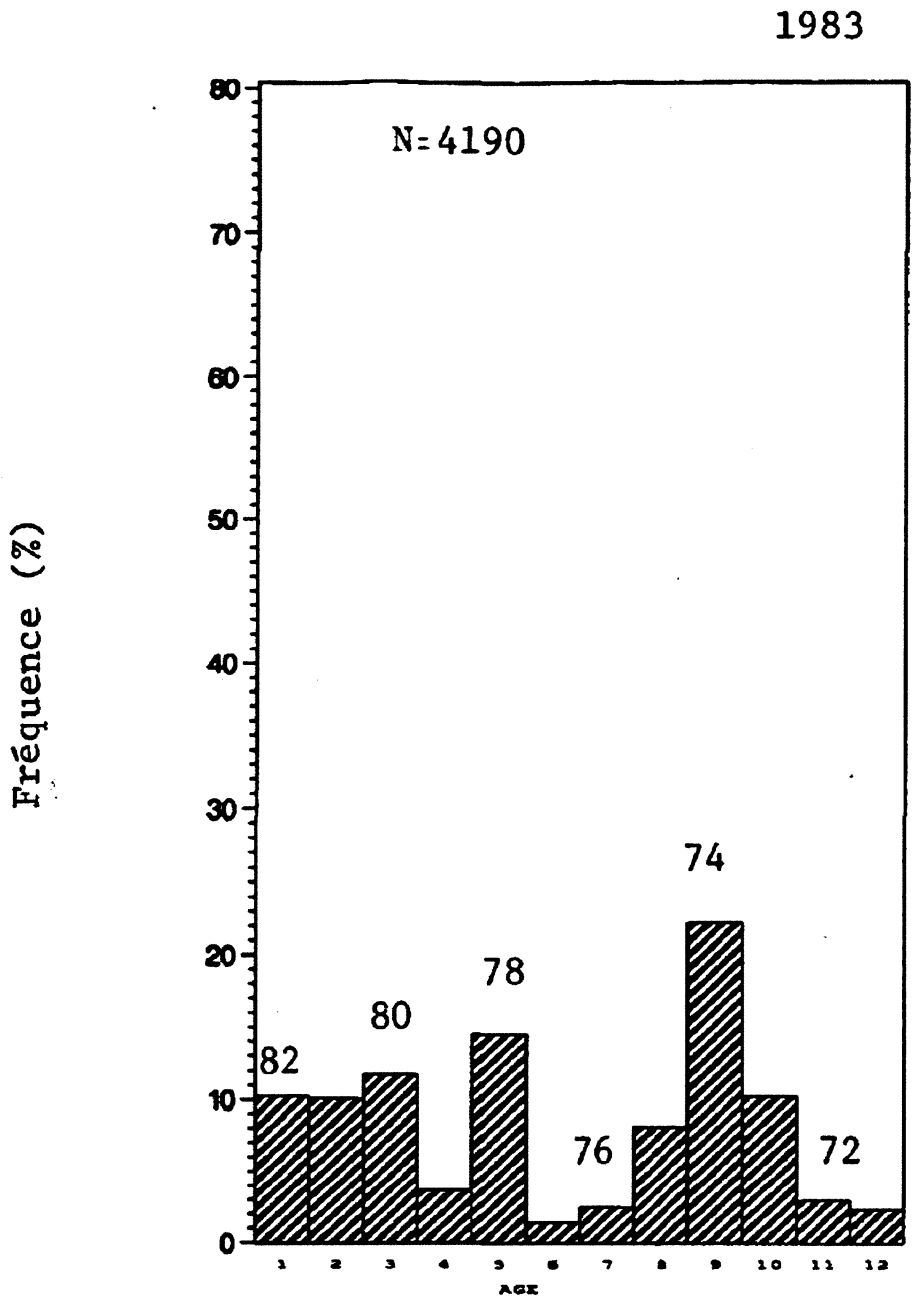
Yes that is a convincing figure!
Could make reference to it if the overall perception of the stock is challenged? (as an secondary index of stock health, or however would be best to put it)
Merci!
Martha

From: Doniol-Valcroze, Thomas
Sent: May-23-17 1:51 PM
To: Krohn, Martha
Cc: Castonguay, Martin; Marentette, Julie
Subject: RE: Mino briefing on mackerel

Well, the attached plot shows the catch-at-age in 1983 and I think it illustrates the point pretty well: you can see not one but several strong age-classes (e.g., 74, 78), and that there was a high overall proportion of fish aged 6-12. You are correct that the contrast with current age structure is striking and is independent from egg surveys and model estimates.

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Thomas



De : Krohn, Martha
Envoyé : 23 mai 2017 13:30
À : Doniol-Valcroze, Thomas; Castonguay, Martin
Cc : Marentette, Julie
Objet : RE: Mino briefing on mackerel

Hi Thomas and Martin,

The deck looks great, I think the media will be very interested and will be able to understand it well.

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Not suggesting a change to the deck at this point, but was thinking about the age structure changes. I don't think there is catch at age figure made up for a year before the age –structure collapsed (1982 could be a good year to pick?) to show how different the age-structure used to be? It could be a good to make a verbal reference to the past age – structure given industry questions the Science/biomass trend, and that info is completely independent of the model or egg survey but also points to overfishing I think?

i.e. it is starting to expand since 2013, but is nowhere close to the proportion of older fish there once were in the fishery.

Thanks to you both,
Martha

From: de Lafontaine, Yves
Sent: May-19-17 5:16 PM
To: Krohn, Martha; Landry, Jean
Cc: Doniol-Valcroze, Thomas; Castonguay, Martin; Gilbert, Michel; Racine, Sylvi
Subject: TR: Mino briefing on mackerel

Martha et Jean,

Voici les versions anglaise et française après révision et validation par nos équipes ici. Sincère merci à Thomas et Sylvi pour leur contribution et révision.

A vous de jouer maintenant!

Yves de Lafontaine

Directeur, Institut Maurice Lamontagne
Directeur, Direction régionale des Sciences
Pêches et Océans Canada / Gouvernement du Canada
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Director, Sciences regional directorate
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Yves.delafontaine@dfo-mpo.gc.ca Tel : 418-775-0555 / Cel. : [redacted]

J'ai 30 ans / I'm 30 years old
INSTITUT MAURICE-LAMONTAGNE
MAURICE LAMONTAGNE INSTITUTE

De : Doniol-Valcroze, Thomas
Envoyé : 19 mai 2017 14:05
À : de Lafontaine, Yves <Yves.deLafontaine@dfo-mpo.gc.ca>
Cc : Gilbert, Michel <Michel.Gilbert@dfo-mpo.gc.ca>; Racine, Sylvi <Sylvi.Racine@dfo-mpo.gc.ca>
Objet : RE: Mino briefing on mackerel

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Bonjour,

Voici les versions anglaises et françaises retravaillées. J'ai vérifié et corrigé la traduction française, intégré les commentaires de Martha et Julie sur la version anglaise ainsi que ceux de Sylvi sur la version française, et refait des figures dans la bonne langue pour les deux fichiers.

Thomas

De : Racine, Sylvi
Envoyé : 18 mai 2017 15:43
À : Doniol-Valcroze, Thomas
Cc : Gilbert, Michel; de Lafontaine, Yves
Objet : RE: Mino briefing on mackerel

Thomas,
Je te laisse le soin de vérifier la concordance. Je n'ai pas lu de mauvaise traduction mais je relirai une fois la concordance examinée.
Il faudrait signaler que :

- La présentation en français a été montée dans le gabarit en anglais (drapeau, texte anglais, texte français) Le gabarit en français est disponible ici http://intra.dfo-mpo.gc.ca/IntraCom/graphic/powerpoint_f.ppt
- Page 3. L'interligne du dernier énoncé doit être corrigé
- le tableau de la page 10 Modèle statistique en français. Un titre a été inséré dans le tableau juste avec les traits et leur légende. Ce titre n'est pas dans l'anglais.
- Il y a aussi une coquille de tabulation au dernier énoncé à la page 11.
- Il faudra replacer les éléments de la page titre pour éviter l'empiétement du texte sur le bandeau bleu. Pareil à la page 4 Évaluation de 2014 et en page 8 Relevé des oeufs.
- À la page 6, la mise en page ne met pas le graphique en valeur
- Tableau à la page 11. Le texte inséré dans et sous le tableau empiète sur la courbe. Peut-on corriger ceci?

Bonne lecture!

Sylvi

De : de Lafontaine, Yves
Envoyé : 18 mai 2017 15:07
À : Racine, Sylvi; Doniol-Valcroze, Thomas
Cc : Gilbert, Michel
Objet : TR: Mino briefing on mackerel

Votre révision SVP pour éviter les incohérences ou mauvaise traduction.

Yves de Lafontaine

Directeur, Institut Maurice Lamontagne
Directeur, Direction régionale des Sciences
Pêches et Océans Canada / Gouvernement du Canada
Yves.delafontaine@dfo-mpo.gc.ca Tél. : 418-775-0555 / tél. cell. : [redacted]

Director, Maurice Lamontagne Institute
Director, Sciences regional directorate
Fisheries and Oceans Canada / Government of Canada
Yves.delafontaine@dfo-mpo.gc.ca Tel : 418-775-0555 / Cel. : [redacted]

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J'ai 30 ans / I'm 30 years old
INSTITUT MAURICE-LAMONTAGNE
MAURICE LAMONTAGNE INSTITUTE

De : Landry, Jean
Envoyé : 18 mai 2017 14:49
À : de Lafontaine, Yves <Yves.deLafontaine@dfo-mpo.gc.ca>
Cc : Krohn, Martha <Martha.Krohn@dfo-mpo.gc.ca>
Objet : TR: Mino briefing on mackerel

On a reçu la version française de la présentation.

Jean Landry

Director , Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Jean.Landry@dfo-mpo.gc.ca / Tel: 613-993-0029

Directeur, Sciences halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Jean.Landry@dfo-mpo.gc.ca / Tél. : 613-993-0029

Government of Canada / Gouvernement du Canada
Canada

De : Boudreau, Carol-Ann
Envoyé : 18 mai 2017 13:52
À : Landry, Jean <Jean.Landry@dfo-mpo.gc.ca>
Cc : Krohn, Martha <Martha.Krohn@dfo-mpo.gc.ca>
Objet : FW: Mino briefing on mackerel

Voilà!

From: Landry, Jean
Sent: May-17-17 5:49 AM
To: Boudreau, Carol-Ann
Cc: Krohn, Martha
Subject: Fw: Mino briefing on mackerel

Can you send to translation. Deadline should be COB tomorrow. Merci
Jean

Sent from my BlackBerry 10 smartphone on the Rogers network.

From: de Lafontaine,
Yves

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<Yves.deLafontaine@dfo-mpo.gc.ca>
Sent: Tuesday, May 16, 2017 6:39 PM
To: Landry, Jean; White, Andrea
Cc: Doniol-Valcroze, Thomas; Gilbert, Michel
Subject: TR: Mino briefing on mackerel

Jean,

I don't have a French version because we were waiting for final approval of the deck before translation. I suggest you get the deck translated and we can double-check the translation here (Thomas and Michel in cc can handle it).

Yves de Lafontaine

Directeur, Institut Maurice Lamontagne
Directeur, Direction régionale des Sciences
Pêches et Océans Canada / Gouvernement du Canada
Yves.delafontaine@dfo-mpo.gc.ca Tél. : 418-775-0555 / tél. cell. : [redacted]

Director, Maurice Lamontagne Institute
Director, Sciences regional directorate
Fisheries and Oceans Canada / Government of Canada
Yves.delafontaine@dfo-mpo.gc.ca Tel : 418-775-0555 / Cel. : [redacted]



De : Landry, Jean
Envoyé : 16 mai 2017 12:23
À : White, Andrea <Andrea.White@dfo-mpo.gc.ca>; de Lafontaine, Yves <Yves.deLafontaine@dfo-mpo.gc.ca>
Cc : Krohn, Martha <Martha.Krohn@dfo-mpo.gc.ca>; Marentette, Julie <Julie.Marentette@dfo-mpo.gc.ca>; Burns, Adam <Adam.Burns@dfo-mpo.gc.ca>; Lester, Brian <Brian.Lester@dfo-mpo.gc.ca>; Northcott, Jennifer <Jennifer.Northcott@dfo-mpo.gc.ca>; Perron, Heloise <Heloise.Perron@dfo-mpo.gc.ca>
Objet : TR: Mino briefing on mackerel

Andy,

Attached is the draft deck for the potential technical media briefing on mackerel. Below Martha has provided few suggestions to Quebec Science's team. You may want to provide this deck to

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Arran when she is back. I have no major flag to raise about this deck. As discussed with Brian this morning, I take the opportunity of this email to share this **draft** deck with our EFM colleagues at HQ as I understand that they may want to prepare a deck covering the management aspects as part of this briefing (to be confirmed with EFM). I also CC our colleagues from COMM.

Next steps:

- Would be important to get some intel from yesterday's Min briefing on mackerel. Is this still the plan to conduct such briefing and if so, when and where? On this matter, Yves and I had a preliminary chat on the location and Halifax was mentioned as an option (one technical briefing in French and English in one location). Can you please check with ADMO about the next steps as Yves' team will need to know and plan accordingly. Adam: any thoughts on this?

Yves: Est-ce que tu as une version française en préparation? Sinon, on peut s'en occuper ici. Tu n'as qu'à m'expédier la version finale anglaise et on procédera. Nous t'expédierons la version française pour validation par ton équipe.

Jean
Jean Landry
Director , Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Jean.Landry@dfo-mpo.gc.ca / Tel: 613-993-0029

Directeur, Sciences halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Jean.Landry@dfo-mpo.gc.ca / Tél. : 613-993-0029

Government of Canada / Gouvernement du Canada — Canada

De : Krohn, Martha
Envoyé : 15 mai 2017 16:30
À : Doniol-Valcroze, Thomas <Thomas.Doniol-Valcroze@dfo-mpo.gc.ca>; Castonguay, Martin <Martin.Castonguay@dfo-mpo.gc.ca>
Cc : Gilbert, Michel <Michel.Gilbert@dfo-mpo.gc.ca>; Landry, Jean <Jean.Landry@dfo-mpo.gc.ca>; Marentette, Julie <Julie.Marentette@dfo-mpo.gc.ca>
Objet : RE: Mino briefing on mackerel

Hi Thomas and Martin,

The presentation looks great, looks like the right level for a media briefing. I am sure the will be very interested.
A couple small points for your consideration from myself and Julie:

Slide 12: the official English translation of summary bullets used "facilitate" recovery ("maximize" recovery would be no fishing?)
Slide 3: typo, additional should have one n
Slide 5: Is it worth mentioning that some undeclared mackerel may also be caught by the American fishery? This is mentioned on slide 3 so maybe don't need to point it out twice.

Would you have the decision table handy at the media briefing in case there are questions about probabilities of growth for other TAC levels?

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Jean may have something to add.

Merci!
Martha

From: de Lafontaine, Yves
Sent: May-12-17 11:11 AM
To: Landry, Jean; Krohn, Martha
Cc: Vincent, Patrick; Doniol-Valcroze, Thomas; Castonguay, Martin; Gilbert, Michel
Subject: TR: Mino briefing on mackerel

Bonjour Martha et Jean,

Voici la dernière version du deck de breffage pour le maquereau ajusté en fonction des scénarios de TAC à 10,000 t. En cas de questions, n'hésitez pas à appeler.
Martin et Thomas sont en route aujourd'hui de retour des USA et seront disponibles lundi matin pour toute discussion du dossier.

Yves de Lafontaine

Directeur, Institut Maurice Lamontagne
Directeur, Direction régionale des Sciences
Pêches et Océans Canada / Gouvernement du Canada
Yves.delafontaine@dfo-mpo.gc.ca Tél. : 418-775-0555 / tél. cell. : 418-516-9063

Director, Maurice Lamontagne Institute
Director, Sciences regional directorate
Fisheries and Oceans Canada / Government of Canada
Yves.delafontaine@dfo-mpo.gc.ca Tel : 418-775-0555 / Cel. : 418-516-9063



De : Gilbert, Michel
Envoyé : 12 mai 2017 10:59
À : Doniol-Valcroze, Thomas <Thomas.Doniol-Valcroze@dfo-mpo.gc.ca>; Castonguay, Martin <Martin.Castonguay@dfo-mpo.gc.ca>
Cc : Racine, Sylvi <Sylvi.Racine@dfo-mpo.gc.ca>; de Lafontaine, Yves <Yves.deLafontaine@dfo-mpo.gc.ca>; Landry, Jean <Jean.Landry@dfo-mpo.gc.ca>
Objet : RE: Mino briefing on mackerel

Merci Thomas !

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Nous avons quelques petites corrections mineurs (éditoriales) et Yves va la transférer à Jean Landry sous peu. Prenez note que mon message ce matin ne contenait pas la bonne présentation et j'ai rectifié le tir avec Yves. Toutes mes excuses !

Prenez note enfin qu'il y aura un appel avec le ministre sur cette question lundi matin à 9h30 et il est crucial que toi et/ou Martin soyez présents au bureau de Yves à ce moment pour répondre à des questions techniques s'il y a lieu.

Merci à l'avance et bon retour !

Michel G.

Michel Gilbert, M. Sc.
Directeur / Director
Direction des sciences pélagiques et écosystémiques / Pelagic and Ecosystem Science Branch
Direction régionale des Sciences / Regional Science Directorate
Pêches et Océans Canada / Fisheries and Oceans Canada
Institut Maurice-Lamontagne / Maurice Lamontagne Institute
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Mont-Joli, Québec, Canada G5H 3Z4
Tél. / Tel. : (418) 775-0604
Téléc. / Fax : (418) 775-0718
Courriel / E-mail : michel.gilbert@dfo-mpo.gc.ca
http://www.qc.dfo-mpo.gc.ca/iml

Ma langue, une question de respect
My language, a matter of respect

De : Doniol-Valcroze, Thomas
Envoyé : 11 mai 2017 22:28
À : de Lafontaine, Yves; Gilbert, Michel; Castonguay, Martin
Cc : Racine, Sylvi
Objet : RE: Mino briefing on mackerel

Bonsoir Yves,

J'ai intégré tes commentaires et ceux de Michel dans cette version. J'espère que c'est mieux comme ça.

Il est peut-être temps de demander leur avis à l'équipe de Jean?

Thomas

De : de Lafontaine, Yves
Envoyé : 11 mai 2017 18:00
À : Doniol-Valcroze, Thomas; Gilbert, Michel; Castonguay, Martin
Cc : Racine, Sylvi
Objet : Re: Mino briefing on mackerel

Bonjour à tous,

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Ou en sommes-nous avec ce breffage? Peut-on avoir une nouvelle version car nous devons finaliser pour demain au bureau de Ottawa. Svp me transmettre votre nouvelle version.

Envoyé de mon smartphone BlackBerry 10 sur le réseau Bell.

De: de Lafontaine, Yves
Envoyé: lundi 8 mai 2017 22:33
À: Doniol-Valcroze, Thomas; Gilbert, Michel; Castonguay, Martin
Cc: Racine, Sylvi
Objet: RE: Mino briefing on mackerel

Mes commentaires.

Yves de Lafontaine

Directeur, Institut Maurice Lamontagne
Directeur, Direction régionale des Sciences
Pêches et Océans Canada / Gouvernement du Canada
Yves.delafontaine@dfo-mpo.gc.ca Tél. : 418-775-0555 / tél. cell. : [redacted]

Director, Maurice Lamontagne Institute
Director, Sciences regional directorate
Fisheries and Oceans Canada / Government of Canada
Yves.delafontaine@dfo-mpo.gc.ca Tel : 418-775-0555 / Cel. : [redacted]



De : Doniol-Valcroze, Thomas
Envoyé : 8 mai 2017 21:40
À : Gilbert, Michel <Michel.Gilbert@dfo-mpo.gc.ca>

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Cc : Racine, Sylvi <Sylvi.Racine@dfo-mpo.gc.ca>; Castonguay, Martin <Martin.Castonguay@dfo-mpo.gc.ca>; de Lafontaine, Yves <Yves.deLafontaine@dfo-mpo.gc.ca>
Objet : RE: Mino briefing on mackerel

Michel,

Voici une première ébauche de breffage technique sur le maquereau, basée sur des diapos de Julie Marentette et sur notre présentation à AMAC. Il faudra les adapter en fonction de la décision du ministre.

Dites-nous ce que vous en pensez.

Thomas

De : Gilbert, Michel
Envoyé : 8 mai 2017 08:54
À : Castonguay, Martin
Cc : de Lafontaine, Yves; Racine, Sylvi; Doniol-Valcroze, Thomas
Objet : RE: Mino briefing on mackerel

Martin,

STP me contacter aujourd'hui à ce sujet. Étant donné votre voyage cette semaine à Woodshole, il faut se coordonner avec Sylvi le plus rapidement possible pour préparer le matériel requis.

Merci à l'avance !

Michel G.

Michel Gilbert, M. Sc.
Directeur / Director
Direction des sciences pélagiques et écosystémiques / Pelagic and Ecosystem Science Branch
Direction régionale des Sciences / Regional Science Directorate
Pêches et Océans Canada / Fisheries and Oceans Canada
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Courriel / E-mail : michel.gilbert@dfo-mpo.gc.ca
http://www.qc.dfo-mpo.gc.ca/iml

Ma langue, une question de respect / My language, a matter of respect

De : de Lafontaine, Yves
Envoyé : 5 mai 2017 18:05
À : Gilbert, Michel; Racine, Sylvi; Castonguay, Martin
Objet : TR: Mino briefing on mackerel

Bonjour

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Le dossier « maquereau » requiert un breffage technique pour les média afin de répondre aux questions éventuels suite à la sortie de l'avis ministériel du TAC. Jean Landry va envoyer un exemple de ce qui a été fait pour Terre-Neuve récemment (crevette) et qu'on pourra utiliser. L'équipe de Jean peut aussi nous donner un coup de pouce et doit absolument voir le produit final avant la sortie. Donc on travaille de concert avec eux pour préparer et finaliser le matériel.
Le ministre ferait l'annonce le 15 ou 16 mai prochain, ce qui laisse un peu de temps, mais selon la décision finale de la gestion des pêches, il faudra ajuster le discours et les Q&R.

SVP coordonner la production entre vous trois. Je vous transmets info dès réception.

Yves de Lafontaine

Directeur, Institut Maurice Lamontagne
Directeur, Direction régionale des Sciences
Pêches et Océans Canada / Gouvernement du Canada
Yves.delafontaine@dfo-mpo.gc.ca Tél. : 418-775-0555 / tél. cell. :

Director, Maurice Lamontagne Institute
Director, Sciences regional directorate
Fisheries and Oceans Canada / Government of Canada
Yves.delafontaine@dfo-mpo.gc.ca Tel : 418-775-0555 / Cel. :



De : Landry, Jean
Envoyé : 4 mai 2017 17:52
À : Vézina, Alain <Alain.Vezina@dfo-mpo.gc.ca>; de Lafontaine, Yves <Yves.deLafontaine@dfo-mpo.gc.ca>
Cc : Chin, Melanie <Melanie.Chin@dfo-mpo.gc.ca>; White, Andrea <Andrea.White@dfo-mpo.gc.ca>; Northcott, Jennifer <Jennifer.Northcott@dfo-mpo.gc.ca>; Krohn, Martha <Martha.Krohn@dfo-mpo.gc.ca>
Objet : Fw: Mino briefing on mackerel

Alain: on va aussi devoir produire un court texte sur les progres realises avec l,avaluation sur le maquereau. J.anticipe un breffage avec le ministre sur le maqureau pour le 15 ou 16 mai (TBC).

Yves: un breffage technique pour les media a été demande étant donné la sensibilite liee a cet enjeu. Details a venir mais on devrait anticiper un breffage en français et un en anglais.

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Jean

Sent from my BlackBerry 10 smartphone on the Rogers network.

From: Burns, Adam <Adam.Burns@dfo-mpo.gc.ca>
Sent: Thursday, May 4, 2017 5:11 PM
To: French, Christopher
Cc: Lapointe, Sylvie; Landry, Jean
Subject: Mino briefing on mackerel

Hi,

We had a mino briefing on mackerel science today where Jean Landry, Martha Krohn and I reviewed the improvements which have occurred in mackerel science over the last year as well as management improvements related to monitoring and reporting which are being implemented for the coming season.

It went well, the only outcome being a request from mino (Sheldon) that the dept consider a joint technical briefing on science and management when the decision comes out -- perhaps one in English and one in French.

AB
Sent from my BlackBerry 10 smartphone on the Rogers network.

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Beamish, Kayla

From: Cawthray, Jenness
Sent: May 24, 2017 3:03 PM
To: Beamish, Kayla
Cc: Amelin, Vasili
Subject: RE: mackerel comm lines

Ok great!

From: Beamish, Kayla
Sent: May-24-17 2:26 PM
To: Cawthray, Jenness
Cc: Amelin, Vasili
Subject: RE: mackerel comm lines

Alright thanks very much. Science has also asked to review these so we have a separate docket moving through their side. I'm currently holding that docket (DG approved) to combine approvals.
Keep me posted!

From: Cawthray, Jenness
Sent: May 24, 2017 2:25 PM
To: Beamish, Kayla
Cc: Amelin, Vasili
Subject: mackerel comm lines

Hi Kayla,
Just wanted to let you know that we are holding comm lines here in case there are further changes from the Ministers office.
I have already reviewed and they are currently with Brian.
Thanks!

Jenness Cawthray
Senior Fisheries and Aquaculture Management Officer |
Agent principal, Gestion des pêches et de l'aquaculture
Fisheries and Oceans | Pêches et océans
200 rue Kent Street - 13S013 Ottawa, ON, K1A 0E6
Jenness.Cawthray@dfo-mpo.gc.ca
Telephone | Téléphone (613) 998-1524
Facsimile | Télécopieur (613) 990-7051
Government of Canada | Gouvernement du Canada

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Taché, Hélène

From: Beamish, Kayla
Sent: May-24-17 10:48 AM
To: ComApproval / Approbation (DFO/MPO)
Subject: RE: docket 233/17

Perfect ☺ thanks!

From: ComApproval / Approbation (DFO/MPO)
Sent: May 24, 2017 10:46 AM
To: Beamish, Kayla
Subject: RE: docket 233/17

Hi Kayla,

Yes it is still with Adam Burns as of 19-MAY-17 at 3:20. I put a note in CATS to bring you the docket once it comes back.

Thanks,

Elise

From: Beamish, Kayla
Sent: May-24-17 10:44 AM
To: ComApproval / Approbation (DFO/MPO)
Subject: RE: docket 233/17

Hi there,
Can you actually confirm where this docket is at? Is it still with Adam Burns (DG program)?

From: ComApproval / Approbation (DFO/MPO)
Sent: May 23, 2017 2:18 PM
To: Beamish, Kayla
Subject: RE: docket 233/17

Hi Kayla,

Will do!

Thanks ☺

Elise

From: Beamish, Kayla
Sent: May-23-17 2:08 PM
To: ComApproval / Approbation (DFO/MPO)
Subject: docket 233/17

Hl guys,

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When these mackerel lines are approved by program DG (Adam Burns) – can you please let me know so I can combine the changes with those that came from Science DG?
Would like to have all changes reflected in the dockets before moving to ADMs.

Thanks!

Kayla Beamish
Communications Advisor / Conseillère principale en communications
613-993-1512
Fisheries and Oceans Canada / Pêches et océans Canada
200 rue Kent Street, Ottawa, ON K1A 0E6
Follow us on Twitter: @DFO_MPO | Suivez-nous sur Twitter : @MPO_DFO

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Gagné, Danie

De: Gagné, Danie de la part de Lemire, Maryse
Envoyé: 26 mai 2017 14:57
À: Gros-Louis, Denis; Naud, Marc; Calderon, Isabel (Isabel.Calderon@dfo-mpo.gc.ca); Larochelle, Sarah; Simard, France
Cc: Boudreau, Suzie; Rivierre, Antoine
Objet: TR: À TITRE D'INFORMATION : 2017-001-01022 mesures de contrôles au maquerau
Pièces jointes: MECTS-#3781495-v1-Main_Docs_2017-001-01022.pdf

Bonjour,

Veuillez trouver ci-joint, pour votre information, une lettre que le RPPSG achemine à Brian Lester visant à demander une augmentation des mesures de contrôle pour le maquereau bleu dans le Golfe.

Danie Gagné pour :
Maryse Lemire
Directrice régionale, Gestion des pêches
Pêches et Océans Canada – Région du Québec / Gouvernement du Canada
Maryse.Lemire@dfo-mpo.gc.ca / Tél. : 418-648-5783 / Téléc. : 418-648-7981

Regional Director, Fisheries Management
Fisheries and Oceans Canada – Quebec Region / Government of Canada
104 Dalhousie Street, Quebec (Quebec) G1K 7Y7
Maryse.Lemire@dfo-mpo.gc.ca / Tél. : (418) 648-5783 / Fax : (418) 648-7981

De : Bois, Lucie
Envoyé : 24 mai 2017 09:39
À : Lemire, Maryse
Objet : TR: À TITRE D'INFORMATION : 2017-001-01022 mesures de contrôles au maquerau

Bonjour Maryse,

PTI.

Merci,

Lucie Bois
Adjointe administrative
Direction générale régionale
Pêches et Océans Canada / Gouvernement du Canada
104, rue Dalhousie, Québec, Qc, G1K 7Y7
Lucie.Bois@dfo-mpo.gc.ca / Tél. : 418-648-4158

Administrative Assistant
Regional Director General's Office
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104 Dalhousie Street, Québec, Qc, G1K 7Y7
Lucie.Bois@dfo-mpo.gc.ca / Tel. : 418-648-4158

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s.19(1)

De : Dimoska, Nina
Envoyé : 18 mai 2017 15:02
À : Bois, Lucie; Richard, Pauline M; Skinner, Sandy; Lewis, Valerie; Kaleta, Michelle
Cc : Milot, Lucie; Cocking, Marie; Griffiths, Sharon
Objet : À TITRE D'INFORMATION : 2017-001-01022 mesures de contrôles au maquerau

À TITRE D'INFORMATION

Numéro de dossier : 2017-001-01022
Objet : Augmentation des mesures de contrôles de la pèche au maquereau dans le golfe
Correspondant : [redacted]

Vous trouverez ci-joint une correspondance destinée au ministre. L'Unité de contrôle de la correspondance ministérielle (UCCM) a déterminé qu'il s'agit d'un dossier INFO qui ne nécessite aucune réponse du ministre. Cette correspondance vous est transmise à titre d'information. Veuillez la distribuer, s'il y a lieu, à d'autres employés du MPO qui peuvent être concernés par cette question.

REMARQUE : Toutefois, si vous êtes d'avis qu'une réponse signée par le ministre est requise, veuillez en aviser l'UCCM dans les plus brefs délais aux coordonnées ci-dessous. Autrement, aucune autre mesure n'est nécessaire (sauf pour la distribution appropriée).

Nina Dimoska
Writer/Editor
Ministerial Correspondence | Correspondance ministérielle
Fisheries and Oceans Canada | Pêches et Océans Canada
E-mail | courriel : Nina.Dimoska@dfo-mpo.gc.ca
To email the Correspondence Writers' group inbox: < CWRC@dfo-mpo.gc.ca >

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s.19(1)

2017-001-01022

Minister / Ministre (DFO/MPO)

From:	Regroupement des Pêcheurs Professionnels du Sud de la Gaspésie <rppsg@globetrotter.net>
Sent:	March-27-17 3:52 PM
To:	Lester, Brian
Cc:	Rivierre, Antoine; Minister / Ministre (DFO/MPO)
Subject:	Contrôle de la pêche au maquereau bleu dans le golfe
Attachments:	Brian Lester, règlementation pêche au maquereau dans le golfe.doc

Bonjour,
Vous trouverez jointe une lettre concernant l'augmentation des mesures de contrôle de la pêche au maquereau bleu dans le golfe.
Au plaisir,

Pages 3340 to / à 3341
are duplicates of
sont des duplicatas des
pages 1437 to / à 1438

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Castonguay, Martin

De: Krohn, Martha
Envoyé: 29 mai 2017 10:17
À: Castonguay, Martin
Cc: Lester, Brian; Doniol-Valcroze, Thomas; Landry, Jean
Objet: RE: TAC

Merci Martin!

From: Castonguay, Martin
Sent: May-29-17 9:59 AM
To: Krohn, Martha
Cc: Lester, Brian; Doniol-Valcroze, Thomas
Subject: RE: TAC

Salut Martha,

J'ai parlé à Brian ce matin. Il m'a mentionné que le ministre attend que les choses se calment à Terre-Neuve avant d'annoncer sa décision sur le TAC.

Pas de date pour le media briefing.

Martin

De : Krohn, Martha
Envoyé : 29 mai 2017 09:31
À : Castonguay, Martin
Cc : Lester, Brian
Objet : RE: TAC

Bonjour Martin,
Je ne sais pas Martin, je viens de téléphoner Brian Lester, mais pas de réponse ! j'essaiera encore plus tard dans la journée.
Est-ce-que vous avez une date pour le « technical media briefing » ?
A plus tard !
Martha

From: Castonguay, Martin
Sent: May-29-17 8:51 AM
To: Krohn, Martha
Subject: TAC

Bonjour Martha,

Sais-tu pourquoi le TAC du maquereau n'a pas encore été annoncé?

Martin

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Bruxer, Shelby

From: Cawthray, Jenness
Sent: May-31-17 11:12 AM
To: Jenkins, Randy
Cc: Gibson, Andrea; Quenneville, Josée
Subject: MECTS-#3786892-v1-QP_Atlantic_mackerel_TAC_2017.docx
Attachments: MECTS-#3786892-v1-QP_Atlantic_mackerel_TAC_2017.docx

Importance: High

Hi Randy,
Please see SCOFO note for Mackerel for approval. Already approved by Brian.
Thanks!
Jenness

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ATLANTIC MACKEREL FISHERY

General Lines:

- Our government is committed to evidence-based decision-making. In fisheries management, this means conducting regular stock assessments.

- The Department undertook a new stock assessment for Atlantic mackerel this spring.

- While the science assessment shows some preliminary signs of rebuilding, the stock is still considered to be in the critical zone under the precautionary approach framework.

- This updated assessment has been discussed with members of the Atlantic Mackerel Advisory Committee and input from stakeholders will assist in future decisions for this fishery.

If pressed:

- We are aware of the concerns of inshore harvesters around access to mackerel, especially for use as bait in other fisheries.

- New catch monitoring measures have been put in place for some fleets beginning this year. An evaluation of these measures, and an assessment of their impacts is taking place before TAC is established for 2017.

- We will continue to work with those involved in the mackerel fishery to develop options for improving real-time catch information on the progress of the fishery.

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If pressed on judicial review:

- The Department will not comment on this matter, as it currently before the Court.

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Message général:

- Le gouvernement s'est engagé à prendre des décisions fondées sur des données probantes. Pour la gestion des pêches, cela signifie procéder régulièrement à des évaluations des stocks.

- Nous avons entrepris ce printemps une nouvelle évaluation du stock de maquereau.

- Même si l'évaluation scientifique montre de premiers signes de rétablissement, le stock est toujours considéré comme se trouvant dans la zone critique selon le cadre de l'approche de précaution.

- Cette évaluation actualisée a été étudiée avec les membres du Comité consultatif sur le maquereau et les commentaires des intervenants seront pris en compte dans les futures décisions concernant cette pêche.

Si on insiste:

- Nous connaissons le point de vue des pêcheurs côtiers au sujet de leur accès au maquereau, en particulier ceux qui l'utilise comme appât pour d'autres pêches.

- Nous travaillerons avec les intervenants de la pêche au maquereau bleu afin de préparer des options permettant d'améliorer l'information de prises en temps réel sur l'avancement de la pêche avant la prochaine saison en 2017.

En cas de questions sur le contrôle judiciaire

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- Le Ministère ne peut commenter cette affaire puisqu'elle se trouve actuellement devant les tribunaux.

s.21(1)(b)
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Background:

- TAC decisions are based on long-term conservation and sustainability principles and take into consideration the department's management plan, scientific advice, as well as consultation with industry.
- The (2014) science stock assessment indicated the Atlantic mackerel stock biomass was at the lowest observed level in the time series (1967-2013). The assessment also indicated the stock was over-exploited from 2010-2013 and has continued to decline at recent harvest levels.
- In the absence of new science advice, and following consultation with its key stakeholder group, the Atlantic Mackerel Advisory Committee, the TAC was maintained at 8,000 tonnes in 2016.
- Given significant catches by the Newfoundland inshore fleet, mainly in 3K, in early October 2016, the TAC level was reached and the fishery closed.
- This fishery has never been closed in the past given that the TAC levels were never reached. Commercial landings in this fishery have been in the range of 5,000t per year in 2014 and 2015.
- To address some harvesters' concerns regarding access to mackerel for bait last fall, those harvesters with gillnet personal use bait licences were permitted to use hand lines for just over two weeks in early November with a reduced daily limit. PEI harvesters have expressed their interest to permit the use of handlines in the bait fishery if the commercial fishery were to close at any point in 2017.
- Some inshore harvesters have recommended that any harvests by seine licence holders be limited to 40% of the TAC irrespective of vessel size. Currently <65' seine vessels fish against the inshore 60% portion of the quota.
- The offshore fleet (large seiners) did not have an opportunity to fish in 2016 as they were just starting when the Department closed the fishery.
- On November 9, 2016, Barry Group Inc., Pride Ventures Inc., 67108 Newfoundland & Labrador Inc., and Gauvin and Noel Compagnie Inc. filed a judicial review application in the Federal Court challenging decisions made to close the 2016 Atlantic Mackerel Fishery in all areas on October 14, 2016, and subsequently, on October 21, 2016 to maintain the closure as a result of the assessment of commercial catch rates. The Applicants submit that the decisions effectively prevented the over 65' fleet (to which they belong) to harvest their share of the total allowable catch.
- The FFAW had requested that the Minister increase the available quota to Canadian inshore harvesters in 2016 based on good catch rates.
- Fishermen have reported a significant number of small fish throughout the Gulf of St. Lawrence in 2016 which may be the sign of good recruitment.
- Science has developed a Limit Reference Point for Atlantic mackerel and undertook a new stock assessment in winter. While the assessment shows some positive signs of growth, the stock is still well within the critical zone as defined by the Precautionary Approach Framework.
- There is a strong industry push to significantly increase the TAC this year, particularly in NL, however, that is not supported by the latest stock assessment.
- Discussion with stakeholders took place on March 30, via the Atlantic Mackerel Advisory Committee to look at management measures for 2017 and 2018 including a TAC, better and more real time catch monitoring in commercial and bait fisheries.
- New measures have been implemented to improve real-time catch data collection and reporting for the 2017 fishery, particularly in the Gulf and Maritimes. The Gulf Region implemented mandatory 100% hail-in and 25% dockside coverage for the commercial fishery (estimated an additional 1,000t of previously unrecorded catch will now be accounted for in catches). In the Maritimes, reporting frequency was increased to weekly (from monthly). Measures are also being considered to improve bait reporting.

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- The commercial fishery for mackerel opened mid-May in the Gulf and Maritimes Regions.

s.21(1)(b)

Contexte

- Le TAC est établi en fonction des principes de conservation et de durabilité à long terme en tenant compte du plan de gestion du Ministère, des avis scientifiques et des consultations avec les intervenants de l'industrie.
- Les résultats les plus récents (2014) de l'évaluation scientifique du stock indiquent que la biomasse du stock de maquereau bleu était au niveau le plus bas observé au cours de la série chronologique (1967-2013). L'évaluation indiquait aussi que le stock avait été surexploité de 2010 à 2013 et que le stock continue à diminuer jusqu'à atteindre les récents niveaux de prises.
- En l'absence d'un nouvel avis scientifique et à la suite des consultations menées auprès du groupe d'intervenants clés, le Comité consultatif du maquereau bleu, le TAC a été maintenu à 8 000 tonnes en 2016.
- Du fait des prises importantes réalisées par la flottille côtière de Terre-Neuve au début du mois d'octobre 2016, le niveau du TAC a été atteint et la pêche fermée.
- Cette pêche n'a jamais été fermée dans le passé puisque les niveaux du TAC n'ont jamais été atteints. Les débarquements de cette pêche sont de l'ordre de 5 000 t par an en 2014 et 2015.
- Afin de répondre aux préoccupations de certains pêcheurs concernant l'accès au maquereau bleu en tant que poisson-appât l'automne dernier, les pêcheurs qui détiennent un permis d'appât pour utilisation personnelle au filet maillant ont été autorisés à utiliser les lignes à main pendant un peu plus de deux semaines au début du mois de novembre, avec une limite quotidienne réduite. Les pêcheurs de l'Î.-P.-É. ont demandé à ce que l'utilisation de palangrottes soit autorisée dans la pêche de poissons-appâts si la pêche commerciale devait fermer à un moment quelconque en 2017.
- Certains pêcheurs côtiers ont recommandé de limiter la récolte des titulaires de permis de pêche à la senne à 40 % du TAC, quelle que soit la taille du bateau. À l'heure actuelle, les prises des bateaux de moins de 65 pi qui pratiquent la pêche à la senne comptent dans les 60 % du quota attribués à la pêche côtière.
- La flottille hauturière (grandes sennes) n'a pas encore eu l'occasion de pêcher puisqu'elle commençait à peine lorsque le Ministère a fermé la pêche la semaine dernière. Elle envisagerait une action en justice.
- Le 9 novembre 2016, Barry Group Inc., Pride Ventures Inc., 67108 Newfoundland & Labrador Inc. et Gauvin and Noel Compagnie Inc. ont déposé une demande de contrôle judiciaire devant la Cour fédérale, contestant les décisions de fermer la pêche au maquereau bleu de 2016 dans toutes les zones le 14 octobre 2016 puis, le 21 octobre, celle de maintenir cette fermeture à la suite de l'évaluation des taux de capture commerciale. Les plaignants affirment que ces décisions ont en fait empêché la flottille de plus de 65 pieds (dont ils font partie) de récolter sa part du total autorisé des captures. [redacted]
- La FFAW a demandé au ministre d'augmenter les quotas disponibles pour les pêcheurs côtiers canadiens en 2016 compte tenu des bons taux de prises enregistrés récemment.
- Les pêcheurs ont signalé un grand nombre de petits poissons dans tout le golfe du Saint-Laurent en 2016, ce qui pourrait dénoter un bon recrutement.

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- Le Secteur des sciences a élaboré un point de référence limite pour le maquereau et a effectué une nouvelle évaluation du stock à la fin de l'hiver. Même si l'évaluation a relevé quelques signes positifs de croissance, le stock se trouve toujours largement dans la zone critique selon le cadre de l'approche de précaution.
- Il y a de fortes pressions de l'industrie pour augmenter sensiblement le TAC cette année, en Terre-Neuve-et-Labrador en particulier, mais une telle décision n'est pas étayée par la dernière évaluation du stock.
- Les discussions avec les intervenants se sont déroulées le 30 mars en marge du Comité consultatif sur la maquereau. Elles portaient sur les mesures de gestion pour 2017 et 2018, y compris un TAC, ainsi que l'amélioration et l'intensification de la surveillance des prises en temps réel dans les pêches commerciales et de poissons-appâts.

Name of Analyst: Jenness Cawthray
Sector: Ecosystems and Fisheries Management
Telephone number: (613) 998-1524

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Beamish, Kayla

From: Cawthray, Jenness
Sent: June 1, 2017 9:29 AM
To: Beamish, Kayla
Subject: RE: Holding lines Mackerel

Follow Up Flag: Follow up
Flag Status: Flagged

Hi Kayla,

Here is a sample line that we could use below. Yes, we could keep these as response lines as you suggested rather than inputting into the comms package. Thank you! Jenness

New catch monitoring measures have been put in place for some fleets beginning this year. An evaluation of these measures, and an assessment of their impacts is taking place before TAC is established for 2017.

We will continue to work with those involved in the mackerel fishery to develop options for improving real-time catch information on the progress of the fishery.

From: Beamish, Kayla
Sent: May-29-17 11:27 AM
To: Cawthray, Jenness
Subject: Re: Holding lines Mackerel

Hi! They're in the email trail below :) don't have a document on hand, in a meeting.

Sent from my BlackBerry 10 smartphone on the Rogers network.

From: Cawthray, Jenness
Sent: Monday, May 29, 2017 11:21 AM
To: Beamish, Kayla
Subject: RE: Holding lines Mackerel

Hi Kayla, Can you send me the current holding lines that you pulled together for the Minister's trip out east?
Thanks!
Jenness

From: Beamish, Kayla
Sent: May-26-17 4:43 PM
To: Cawthray, Jenness
Subject: Holding lines Mackerel

Hi Jenness,

I got your voicemail about mackerel holding lines. I had actually pulled a few together not long ago for the Minister's trip out east. Ran them by Brian, up to Sylvie.

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These would be a good start for us until a decision is made public, but I think you also mentioned having something specific to the fishery being open but no decision out yet...and for that we don't have a line. I can't recall a time when this has happened before (at least while I've been here since January) but I could keep poking around.

Did you have something in mind for an "if pressed" on why the decision has not been announced when the fishery is open?

I'm wondering though if we'd need to have holding lines approved all the way if we know the decision is coming in the next little while and we'll have lines ready for that – or if we could just respond to media as questions come in about the issue (using these lines we have and maybe adding/tweaking to address specific questions)?

We can chat on Monday!
Have a lovely weekend.

Kayla

From: Lapointe, Sylvie
Sent: May 12, 2017 11:39 AM
To: Beamish, Kayla
Cc: Burns, Adam; Lester, Brian
Subject: RE: Approval: holding lines Mackerel (Min trip to NS)

Approved.

Sylvie

From: Beamish, Kayla
Sent: Friday, May 12, 2017 11:30 AM
To: Lapointe, Sylvie <Sylvie.Lapointe@dfo-mpo.gc.ca>
Cc: Burns, Adam <Adam.Burns@dfo-mpo.gc.ca>; Lester, Brian <Brian.Lester@dfo-mpo.gc.ca>
Subject: Approval: holding lines Mackerel (Min trip to NS)

Hi Sylvie,

We're hoping to include some general holding lines on mackerel in the Minister's spokesbinder – trip to NS next Monday. Spokesbook due today, sorry for the short notice.
Are you ok with the holding lines below? Reviewed by/input from Brian Lester, approved by Adam Burns.

Merci!

Media lines

- Our government ensures that fisheries management decisions for all stocks, including Atlantic mackerel include consideration of the best available science as well as input from Indigenous groups, harvesters, processors, environmental non-government organizations and the provinces.

- The Department undertook a new stock assessment for Atlantic mackerel this spring. This updated assessment was discussed with members of the Atlantic Mackerel Advisory Committee on March 30 and input from stakeholders will assist in future decisions for this fishery.

- While the science assessment has shown some preliminary signs of rebuilding, the stock assessment indicates that the stock remains in the critical zone under DFO's Precautionary Approach framework.

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- As noted in the stock assessment and as was discussed at the most recent meeting of the Atlantic Mackerel Advisory Committee, better and more complete catch data reporting is needed in this fishery so new catch monitoring measures will be put in place for some fleets beginning this year.

- Fisheries and Oceans Canada is committed to balancing economic opportunity and financial stability of the Atlantic mackerel fishery while promoting the sustainability of this resource.

If pressed:

- Management decisions for this fishery will consider long-term conservation and sustainability of the stock and take into account the best available science, the department's management plan, and views expressed by stakeholders at the recent consultation with industry.

- While industry supported and agreed with the general trends of stock rebuilding indicated in the stock assessment, their views are that the overall biomass is significantly larger than the level indicated in the 2017 stock assessment.

Kayla Beamish
Communications Advisor / Conseillère principale en communications
613-993-1512
Fisheries and Oceans Canada / Pêches et océans Canada
200 rue Kent Street, Ottawa, ON K1A 0E6
Follow us on Twitter: @DFO_MPO | Suivez-nous sur Twitter : @MPO_DFO

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Cormier, Mélanie

De: Gros-Louis, Denis
Envoyé: 2 juin 2017 11:22
À: Lemire, Maryse; Rivierre, Antoine
Cc: Boudreau, Suzie; Larochelle, Sarah
Objet: RE: À TITRE D'INFORMATION : 2017-001-01022 mesures de contrôles au maquerau

Antoine et Maryse,
Je souscris au fond. Continuons de mettre de la pression à FMOC pour que l'on reprenne le contrôle sur l'évaluation des stocks via une meilleure connaissance des prises.

Denis

De : Gagné, Danie **De la part de** Lemire, Maryse
Envoyé : 26 mai 2017 14:57
À : Gros-Louis, Denis <Denis.Gros-Louis@dfo-mpo.gc.ca>; Naud, Marc <Marc.Naud@dfo-mpo.gc.ca>; Calderon, Isabel <Isabel.Calderon@dfo-mpo.gc.ca>; Larochelle, Sarah <Sarah.Larochelle@dfo-mpo.gc.ca>; Simard, France <France.Simard@dfo-mpo.gc.ca>
Cc : Boudreau, Suzie <Suzie.Boudreau@dfo-mpo.gc.ca>; Rivierre, Antoine <Antoine.Rivierre@dfo-mpo.gc.ca>
Objet : TR: À TITRE D'INFORMATION : 2017-001-01022 mesures de contrôles au maquerau

Bonjour,

Veuillez trouver ci-joint, pour votre information, une lettre que le RPPSG achemine à Brian Lester visant à demander une augmentation des mesures de contrôle pour le maquereau bleu dans le Golfe.

Danie Gagné pour :
Maryse Lemire
Directrice régionale, Gestion des pêches
Pêches et Océans Canada – Région du Québec / Gouvernement du Canada
Maryse.Lemire@dfo-mpo.gc.ca / Tél. : 418-648-5783 / Téléc. : 418-648-7981

Regional Director, Fisheries Management
Fisheries and Oceans Canada – Quebec Region / Government of Canada
104 Dalhousie Street, Quebec (Quebec) G1K 7Y7
Maryse.Lemire@dfo-mpo.gc.ca / Tél. : (418) 648-5783 / Fax : (418) 648-7981

De : Bois, Lucie
Envoyé : 24 mai 2017 09:39
À : Lemire, Maryse
Objet : TR: À TITRE D'INFORMATION : 2017-001-01022 mesures de contrôles au maquerau

Bonjour Maryse,

PTI.

Merci,

s.19(1)
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Lucie Bois
Adjointe administrative
Direction générale régionale
Pêches et Océans Canada / Gouvernement du Canada
104, rue Dalhousie, Québec, Qc, G1K 7Y7
Lucie.Bois@dfo-mpo.gc.ca / Tél. : 418-648-4158

Administrative Assistant
Regional Director General's Office
Fisheries and Oceans Canada / Government of Canada
104 Dalhousie Street, Québec, Qc, G1K 7Y7
Lucie.Bois@dfo-mpo.gc.ca / Tel. : 418-648-4158

De : Dimoska, Nina
Envoyé : 18 mai 2017 15:02
À : Bois, Lucie; Richard, Pauline M; Skinner, Sandy; Lewis, Valerie; Kaleta, Michelle
Cc : Milot, Lucie; Cocking, Marie; Griffiths, Sharon
Objet : À TITRE D'INFORMATION : 2017-001-01022 mesures de contrôles au maquerau

À TITRE D'INFORMATION

Numéro de dossier : 2017-001-01022
Objet : Augmentation des mesures de contrôles de la pèche au maquereau dans le golfe
Correspondant :

Vous trouverez ci-joint une correspondance destinée au ministre. L'Unité de contrôle de la correspondance ministérielle (UCCM) a déterminé qu'il s'agit d'un dossier INFO qui ne nécessite aucune réponse du ministre. Cette correspondance vous est transmise à titre d'information. Veuillez la distribuer, s'il y a lieu, à d'autres employés du MPO qui peuvent être concernés par cette question.

REMARQUE : Toutefois, si vous êtes d'avis qu'une réponse signée par le ministre est requise, veuillez en aviser l'UCCM dans les plus brefs délais aux coordonnées ci-dessous. Autrement, aucune autre mesure n'est nécessaire (sauf pour la distribution appropriée).

Nina Dimoska
Writer/Editor
Ministerial Correspondence | Correspondance ministérielle
Fisheries and Oceans Canada | Pêches et Océans Canada
E-mail | courriel : Nina.Dimoska@dfo-mpo.gc.ca
To email the Correspondence Writers' group inbox: < CWRC@dfo-mpo.gc.ca >

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Cyr, Charley

De: Doniol-Valcroze, Thomas
Envoyé: 2 juin 2017 16:07
À: Cyr, Charley; Dominique Gascon
Objet: RE: Révision du compte rendu de la revue sur le maquereau
Pièces jointes: PRO2017_xxx Eval_maquereau-fra.docx

Voici mes corrections. Excellent travail de la part de Sonia, comme d'habitude.

Bonne fin de semaine,
Thomas

De : Cyr, Charley
Envoyé : 12 mai 2017 12:05
À : Doniol-Valcroze, Thomas; Dominique Gascon
Objet : Révision du compte rendu de la revue sur le maquereau

Bonjour,

Vous trouverez ci-joint le compte rendu produit à la suite de la revue par les pairs sur l'évaluation du maquereau. Svp le réviser et me fournir vos commentaires pour la fin mai.

Merci

Charley Cyr

Directeur, Avis, Informations et soutien scientifiques
Direction régionale des Sciences
Pêches et Océans Canada / Gouvernement du Canada
charley.cyr@dfo-mpo.gc.ca / Tél.: 418-775-0825

Director, Scientific Advices, Informations and Support
Science Regional Branch
Fisheries and Oceans Canada / Government of Canada
Charley.cyr@dfo-mpo.gc.ca / Tel.: 418-775-0825



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Available online: http://waves-vagues.dfo-mpo.gc.ca/Library/40641417.pdf

Pêches et Océans Canada | Fisheries and Oceans Canada

Sciences des écosystèmes et des océans | Ecosystems and Oceans Science

Secrétariat canadien de consultation scientifique (SCCS)

Compte rendu 2017/nnn

Région du Québec

Compte rendu de l'examen par des pairs régional sur l'évaluation du maquereau bleu des sous-régions 3 et 4

Du 8 au 9 mars 2017
Mont-Joli, Qc

Président : Dominique Gascon
Rapporteure : Sonia Dubé

Institut Maurice-Lamontagne
Pêches et Océans Canada
850, Route de la Mer, C.P. 1000
Mont-Joli, Québec, G5H 3Z4

Juin 2017

Canada

Pages 3358 to / à 3370

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Pêches et Océans Canada | Fisheries and Oceans Canada

Direction des sciences
Région du Québec
Direction avis, information et soutien scientifiques

Science Branch
Quebec Region
Scientific advice, Information and Support Branch

Classif. sécurité/Security

NOTE DE SERVICE / MEMORANDUM **Le 5 juin 2017**

À: TO: Michel Gilbert
Directeur
Dir. Sciences pélagiques et écosystémiques

Votre réf./Your ref.

Notre réf./Our ref.

DE: FROM: Charley Cyr
Dir. Avis, information et soutien scientifiques

OBJET: SUBJECT: **Approbation du compte rendu no 2017/xxx «** Compte rendu de l'examen par des pairs régional portant sur l'évaluation du maquereau bleu des sous-régions 3 et 4; du 8 au 9 mars 2017»

Le document cité en rubrique sera publié dans la série "Compte rendu" du Secrétariat canadien de consultation scientifique (SCCS).

Ce document vous est donc présenté pour approbation finale avant d'être acheminé au SCCS à Ottawa.

Suivant votre approbation, veuillez retourner la présente à l'expéditeur.

Charley Cyr

p. j. (1)

Approbation : _____ Date : 9/06/17

Michel Gilbert
Directeur DSPE

Canada

Institut Maurice-Lamontagne / Maurice-Lamontagne Institute
850 route de la Mer, C.P. 1000, Mont-Joli, QC G5H 3Z4

Pages 3372 to / à 3385

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Waters, Christa

From: Waters, Christa
Sent: June-02-17 8:32 AM
To: [redacted]
Subject: RE: Mackerel 2017 TAC

Morning [redacted]
There has been no decision on TAC yet. Brian is likely your best contact for mackerel as they are the lead for the species. That being said, I am happy to answer any questions you have. Also, I will send out a message as soon as I hear anything on the TAC.
Have a great weekend.
Christa

Christa Waters
Regional Senior Fisheries Management Advisor
Resource Management | Gestion des Pêches
Maritimes Region | Région des Maritimes
Telephone | Téléphone 902-293-6541

From: [redacted]
Sent: May-30-17 4:09 PM
To: Waters, Christa
Subject: Mackerel 2017 TAC

Hi Christa,

I'm just writing to see if there are any updates about the mackerel TAC decision for 2017? Looking back through our records I think that we received last year's notice on May 31st.

Thank you!

[redacted]

[redacted]

2705 Fern Lane, Halifax, NS, B3K 4L3
tel. +1.902.446.4840 **cell** [redacted]
Skype [redacted]
ecologyaction.ca

Ecology Action Centre

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Patterson, Pauline

De: Gilbert, Eric
Envoyé: June-13-17 2:34 PM
À: Rowsell, Andrew; Gros-Louis, Denis; Lemelin, Dario
Objet: TR: Document de consultation permis de pêche en mer
Pièces jointes: Document permis de pêche en mer FédéCP.docx; lettre 28 septembre 2016.docx; Communiqué invitation 11 juin 2017 population.docx

PVI

Éric Gilbert

De : Alain Cossette [mailto:AlainCossette@fedecp.com]
Envoyé : 13 juin 2017 14:25
À : Gilbert, Eric <Eric.Gilbert@dfo-mpo.gc.ca>
Cc : Arseneau, Cédric <Cedric.Arseneau@dfo-mpo.gc.ca>
Objet : TR: Document de consultation permis de pêche en mer

Bonjour,
Tel que convenu , je vous fait parvenir notre document de consultation .
Ce dernier vient de partir vers nos régionales et va partir dans un deuxième
Temps vers nos associations .

Bien heureux de travailler en partenariat !
Alain

Fédération québécoise
des chasseurs et pêcheurs

ALAIN COSSETTE – Directeur général
162 rue du Brome, Saint-Augustin-de-Desmaures (Québec) G3A 2P5
418.878.8903 | 1888 LAFAUNE | Fax : 418.878.8980
alaincossette@fedecp.com
http://www.fedecp.com

De : [redacted]
Envoyé : 13 juin 2017 13:51
À : [redacted]

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[redacted]

Cc : Alain Cossette <AlainCossette@fedecp.com>
Objet : Document de consultation permis de pêche en mer

Bonjour à tous,

Nous avons commencé, [redacted] à travailler sur le projet de permis de pêche en mer du MPO. Voici, sur la suggestion de [redacted] des informations au sujet de ce dossier.

Le ministère des Pêches et des Océans du Canada a récemment annoncé une tournée de consultation pour recueillir l'avis des citoyens sur le projet d'instaurer un permis de pêche en mer pour l'est du Canada. Présentement la situation est qu'il n'est pas nécessaire de se procurer de permis pour pêcher dans ce qui se trouve être la zone 21. Aussi, certaines espèces de poissons sont réservées aux pêcheurs commerciaux et les pêcheurs sportifs ne peuvent les pêcher. Cela risque de changer. À la base, le MPO entend stimuler la pêche sportive en mer comme moteur économique. Cependant, pour ce faire, il est essentiel d'amasser des statistiques sur l'exploitation des populations de poissons et documenter la pression de pêche. C'est à cette fin qu'on envisage émettre un permis de pêche et d'obliger les pêcheurs à déclarer leurs prises.

Nous avons eu une rencontre la semaine dernière à nos bureaux, à laquelle a participé [redacted] alors que des représentants du MPO sont venus voir ce que la FédéCP en pensait et recueillir nos premières impressions. Nous leur avons donné quelques-unes de nos positions, entre autres que pour nous, le partage équitable des ressources entre sportifs et commerciaux est essentiel. Ils nous ont aussi demandé de produire un mémoire qui sera important pour alimenter les réflexions du gouvernement.

On leur a aussi expliqué que nous devions procéder nous-mêmes à une consultation dans notre organisation pour attacher toutes les ficelles et c'est à cet effet que nous avons produit le document placé en pièce jointe. Ce document est rédigé par section à la fin desquelles on vous demande de répondre à des questions. Il faudrait que vous consultiez vos organisations et que vous répondiez à ces questions.

Les réponses serviront à deux occasions. Tout d'abord, elles serviront aux consultations régionales qui se tiendront très bientôt et auxquelles il serait important que des membres de vos organisations participent. Dès que nous pourrons, nous vous transmettrons les dates et les coordonnées des consultations. Ensuite, ces réponses serviront à la rédaction d'un mémoire qui sera soumis au CA du mois d'août, puis transmis au MPO.

Échéancier : Pour ceux qui participeront aux consultations, si possible répondre aux questions avant d'y participer.
Pour tout le monde, 15 août pour nous transmettre vos réponses pour la rédaction du mémoire.

https://www.canada.ca/fr/peches-oceans/nouvelles/2017/05/saison_2017_de_lapecherecreativedupoissondefondterre-neuve-et-la.html

http://www.dfo-mpo.gc.ca/fm-gp/peches-fisheries/comm/marine-rec-fish-consultation-peche-rec-mer-fra.htm

Vous trouverez aussi en pièce jointe deux documents concernant le projet de pêche au homard en Minganie.

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s.19(1)

Fédération québécoise
des chasseurs et pêcheurs

[redacted] – Biologiste
162 rue du Brome, Saint-Augustin-de-Desmaures (Québec) G3A 2P5
418.878.8903 poste [redacted] | 1888 LAFAUNE | Fax : 418.878.8980
[redacted]
http://www.fedecp.com

Available at http://www.fedecp.com/media/2909/memoire-instauration-d-un-permis-de-peche-en-mer.pdf
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12 juin 2017

Fédération québécoise
des chasseurs et pêcheurs

Consultation sur les permis de pêche récréative en mer pour l'Est du Canada

Le 19 mai 2017, le ministère des Pêches et des Océans a annoncé qu'il envisageait de mettre en œuvre un nouveau régime de délivrance de permis de pêche récréative en mer dans l'Est du Canada. Du même coup, il annonçait que des consultations auraient lieu avec les représentants provinciaux, les groupes autochtones, les pêcheurs à la ligne, les exploitants de bateaux affrétés et d'autres intervenants.

Présentement, la pêche commerciale reçoit toutes les attentions du MPO. Mais il semble que le ministre soit d'avis que les ressources piscicoles marines peuvent davantage bénéficier aux communautés en misant plus sur la pêche récréative. Pour la FédéCP, ce point de vue est partagé puisqu'elle défend ardemment le principe que les ressources fauniques sont un **bien collectif** qui doit être disponible à l'ensemble des citoyens. D'ailleurs, la loi prévoit qu'une population piscicole peut être allouée selon un ordre à quatre niveaux : à sa propre reproduction, aux besoins alimentaires, à la pêche sportive et à la pêche commerciale. Bon nombre de pêcheurs commerciaux semblent considérer que la pratique de leurs activités est un droit, mais il s'agit plutôt d'un privilège et les pêcheurs sportifs doivent faire des gains à cet égard.

Un des objectifs poursuivis est donc de stimuler la pêche récréative comme moteur économique. Pour la FédéCP, la pêche sportive est source d'enrichissement pour toutes les régions et il est primordial de maximiser les opportunités économiques qui en découlent partout au Québec.

Un autre objectif concerne les aspects biologiques. Selon le MPO, le moment est opportun de réfléchir à l'instauration d'un permis dans la mesure où certains stocks, tels que ceux de la morue à Terre-Neuve et du bar rayé au Nouveau-Brunswick se rétablissent. D'autres, telles que ceux du maquereau, nécessitent une attention particulière. L'arrivée d'un permis, avec déclaration des prises, aidera le MPO à mieux suivre les populations, ainsi que la pression de pêche et le nombre de captures. D'ailleurs, le permis ne sera pas nécessaire pour toutes les espèces. Les poissons catadromes (anguille), et les poissons anadromes (bar rayé, éperlan, truite de mer, esturgeon et autres) ne sont pas inclus au projet. La pêche sera donc permise sans permis pour ces espèces et dans les mêmes lieux que présentement (ainsi que pour le doré, le baret et autres).

Si toutes les étapes de ce projet se déroulent comme prévu, la mise en place du permis devrait survenir en 2018.

Pages 3391 to / à 3396
are public-denied pursuant to section
est public-refusé en vertu de l'article

68(a)

of the Access to Information Act
de la Loi sur l'accès à l'information

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Havre-Saint-Pierre, le 28 septembre 2016

Objet : En réponse à la rencontre d'août 2016

Madame Calderón,

Pour faire suite à la rencontre d'un des représentants du comité des pêcheurs en eaux salées de la Minganie en lien avec la demande de pêche sportive dans la zone 4S2 (stipulée dans un mémoire intitulé RÉVISON DE LA POLITIQUE DES PÊCHES RÉGION ATLANTIQUE et daté de juin 2015), nous vous transmettons les détails de notre proposition de projet de pêche sportive en eaux salées pour l'année 2017.

En ce qui a trait au choix de l'espèce, nous avons retenu le homard car nous croyons qu'il est accessible à un plus grand nombre de personnes. En effet, le homard se pêche en eau peu profonde, près des côtes, ce qui le rend accessible aux gens de tous âges. De plus, il permet la transmission de cette activité traditionnelle tout en donnant aux gens de la région l'occasion de bénéficier de cette richesse naturelle disponible sur le territoire, sans mettre l'espèce en péril.

Pour pratiquer la pêche au homard, différents moyens de transports peuvent être utilisés : une embarcation de plaisance, un véhicule tout terrain ou simplement à pied. En outre, le matériel nécessaire pour la capture du homard est abordable.

Voici les détails de la proposition

Permis

Nous proposons que des permis soient accessibles aux résidents adultes de Havre-Saint-Pierre ainsi que ceux âgés de 12 ans et plus, accompagnés d'un adulte, comme c'est le cas pour plusieurs autres permis de pêche et de chasse.

Date d'ouverture

Nous proposons que la pêche au homard soit ouverte du 15 juin au 03 août 2017. Cette période est idéale pour la pratique de la pêche au homard par les résidents du village puisque la température estivale est davantage propice et sécuritaire.

Secteur de pêche

Nous proposons que le secteur de pêche s'étende du ruisseau Ulric à l'Ile Puyjalon et ce à un maximum de 5 miles nautiques au large de la côte. De notre avis, la zone circonscrite est adéquate, d'une part, pour en permettre le contrôle, et, d'autre part, pour que tous les adeptes de pêche au homard disposent d'un espace suffisant pour pêcher.

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Engins de pêche et étiquetage

Nous proposons deux méthodes différentes pour la capture du homard.

La première méthode est la prise du crustacé à l'aide d'une cage. Il serait permis un maximum d'une cage par pêcheur. Chaque cage devrait être identifiée conformément au plan de pêche axé sur la conservation 2016-2018 de la zone 18G- Cote-Nord.

Lors de la mise à l'eau de la cage et de sa récupération, le détenteur du permis devrait être présent. La dimension de la cage devrait être conforme au plan de pêche axé sur la conservation 2016-2018 de la zone 18G- Cote-Nord.

La deuxième méthode proposée est la capture du homard à l'aide d'un engin manuel. Tout engin manuel ne devrait pas blesser le homard (exemple : puise, vadrouille). Ceci exclu la gaffe.

Nombre de homards par personne et identification

Nous proposons une capture maximale de vingt homards d'une longueur minimale de 83 mm (longueur conforme au plan de pêche axé sur la conservation 2016-2018 de la zone 18G- Cote-Nord) soit autorisé chaque saison. Les homards devraient être identifiés au moyen d'une étiquette.

Plongée sous-marine

Puisqu'il s'agit d'une activité récréative, la capture du homard pourrait aussi se faire en plongée sous-marine.

Nous profitons de l'occasion pour vous rappeler que vous avez déjà au dossier les lettres d'appui des instances du milieu : pêcheurs commerciaux, municipalités de la Minganie, MRC de Minganie et population du territoire.

Pour toute question ou complément d'information, n'hésitez pas à communiquer avec nous.

Veuillez agréer l'expression de mes sentiments distingués.

[redacted]

Président du comité des pêcheurs sportifs en eaux salées de la Minganie

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APPEL À LA POPULATION

Rassemblement populaire en appui à l'émission de permis de pêche sportive en eau salées

Havre-Saint-Pierre le 25 mai 2017 – Le comité des pêcheurs sportifs en eaux salées de la Minganie a été créé en 2014 dans le but d'obtenir des permis de pêche sportive en eaux salées pour les particuliers. Le crabe, le homard et le pétoncle sont quelques exemples des demandes formulées par le comité auprès du ministère Pêches et Océans Canada.

Depuis environ 25 ans, l'association chasse et pêche de Havre-Saint-Pierre a fait quelques tentatives afin d'obtenir ces permis. La mise en place d'un comité a favorisé des démarches plus actives dans les dernières années : pétition, lettres d'appuis, mémoire et communications avec le ministère.

Le comité des pêcheurs sportifs en eaux salées de la Minganie sollicite à présent la population afin de démonter son appui à cette initiative.

Le rassemblement a lieu

Dimanche le11 juin 2017 à 14 heures

Départ du Portail Pélagie-Cormier, à Havre-Saint-Pierre

Arrivée au bâtiment de Pêches et Océans Canada, à Havre-Saint-Pierre

Bienvenue aux chasseurs, aux pêcheurs et aux adeptes de villégiature, hommes, femmes et enfants.

Votre présence est importante pour démontrer la volonté du milieu à profiter de ses richesses.

-30-

Source

[redacted]

Président des pêcheurs en eaux salées de la Minganie

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s.19(1) Loi sur l'accès à l'information.

Patterson, Pauline

De: Gros-Louis, Denis
Envoyé: June-14-17 3:02 PM
À: Plamondon, Michel
Objet: Re: Demandes d'entrevues - Messages consultations permis pêche récréative

Salut, faits.
[redacted] voulait savoir, entre autres si les gens allaient devoir remettre a l'eau. Somme toute, le processus était son deuxième point d'explication alors que [redacted] voulait un portrait global.

Bien eté et court.

Denis

De : Plamondon, Michel
Envoyé : Wednesday, June 14, 2017 01:16 PM
À : Gros-Louis, Denis
Objet : RE: Demandes d'entrevues - Messages consultations permis pêche récréative

Denis,

Tu me confirmeras lorsque les entrevues seront faites et comment ça été?

MP

De : Plamondon, Michel
Envoyé : 14 juin 2017 09:37
À : Gros-Louis, Denis
Cc : Lemire, Maryse
Objet : Demandes d'entrevues - Messages consultations permis pêche récréative

Bonjour Denis,

Voici les coordonnées et les heures pour les deux entrevues. La journaliste demande c'est quoi l'avantage pour le MPO de l'émission d'un permie. Les messages ***Si pressé*** seront utiles.

Entrevue à 13 heures
[redacted]
Radio-Gaspésie
[redacted]

Entrevue à 13 heures 15
[redacted]
Le Pharillon
[redacted]

Bonnes entrevues!

MP

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Enjeu

Pêches et Océans Canada procède à des consultations pour la mise en place d'un système de délivrance de permis de pêche récréative en mer pour l'est du Canada. Au Québec, ces consultations se tiendront dans les trois secteurs maritimes au cours des prochaines semaines. Le poisson de fond et le maquereau sont d'abord les espèces visées par ces consultations. Cependant, le Ministère, bien au fait de l'intérêt pour d'autres espèces, entendra les demandes faites à ce sujet. Les médias s'intéressent grandement à ces consultations.

Messages

- Pêches et Océans Canada doit revoir la réglementation existante pour mettre en place un système de délivrance de permis de pêche récréative en mer.

- Au Québec, les espèces visées par cette initiative sont d'abord les poissons de fond et le maquereau. Toutefois, les intervenants sont aussi invités à exprimer leur point de vue sur l'ajout d'autres espèces qui pourraient être couvertes par le régime réglementaire dans l'avenir.

- Des consultations sont actuellement en cours dans l'ensemble du Québec et dans les provinces de l'Atlantique.

- Le permis s'appliquerait initialement au poisson de fond et au maquereau. Cependant le MPO est conscient de l'intérêt pour d'autres espèces.

- Les intervenants pourront assister aux consultations en personne pour faire valoir leurs points de vue ou encore les envoyer par écrit par le biais de notre site Web ou à l'adresse courriel : Recfish/PecheRec.XNCR@dfo-mpo.gc.ca

Si pressé

- L'objectif principal est de mieux gérer l'état des stocks où l'accès récréatif existe déjà. Par conséquent, pour l'instant, l'accent sera mis sur les stocks tels que le poisson de fond qui montre des signes de reprise dans certaines zones et pour le maquereau, dont le statut est préoccupant. D'autres espèces pourraient être considérées lors de futures phases pour le processus d'émissions de permis.

- La licence est destinée à aider à l'évaluation des stocks en fournissant des données sur les prises et l'effort de pêche. Tout comme pour la pratique actuelle, les décisions concernant la rétention, les ouvertures de pêche, les types d'engins, etc., seront basées sur les conseils scientifiques en consultations avec les groupes autochtones, les pêcheurs à la ligne et d'autres parties prenantes. Les espèces inscrites à la SARA resteront interdites. Les espèces évaluées par le COSEPAC comme menacées pourront faire face à des restrictions supplémentaires.

Porte-parole

Dario Lemelin, Directeur intérimaire du secteur des Îles-de-la-Madeleine
Denis Gros-Louis, Directeur intérimaire du secteur de la Gaspésie-Bas-Saint-Laurent
Andrew Rowsell, Directeur du secteur de la Côte-Nord

Michel Plamondon
Conseiller principal en communication/Senior Communications Advisor
Pêches et Océans Canada/Fisheries and Oceans Canada
Région du Québec/Quebec Region
Téléphone : 418-648-5419
Télécopieur/Fax: 418-648-4758
Michel.Plamondon@dfo-mpo.gc.ca

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s.19(1)

Waters, Christa

From: Waters, Christa
Sent: June-19-17 3:18 PM
To: [redacted] Atlantic Herring Co-op / Full Bay Scallop; [redacted] Cheney, Sarah; [redacted] Fort Folly FN; [redacted]
Subject: Maritimes Mackerel Advisory Committee - Follow-up
Attachments: MARMAC Record of Decision Feb 2016 FINAL_LHB.docx

Hello,

Thank you all for your attendance and participation at the March 23, 2017 Maritimes Mackerel Advisory Committee (MARMAC) meeting. There are some follow-up items that I would like to address.

Changes to Reporting Frequency

There are changes to the reporting frequency for Vessel Based gillnet/handline fishery for 2017. This fishery is now required to hail out on the first trip of the week and hail in to a dockside monitoring company each Sunday of each week, whether or not fish has been caught. Documents are to be submitted to the DMC within seven days of weeks end. If you have any questions please refer to your conditions, ask your local Fishery Officer or contact me. A separate email will be going out to all licence holders shortly.

Record of Discussion 2016 and 2017

For your records, the final copy of the Record of Discussion for the MARMAC of 2016 is attached. The 2017 Record of Discussion should be available within the next week or so. Once it is in a final draft, I will send it out to the group for your comment.

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Further Consultation this Season

Over the last two years at the Advisory Committee, DFO has talked about implementing more restrictive measures in the commercial fishery to address the critical situation of the stock. This season, DFO will continue consultations on potential limits to the number of hooks/lines and autojiggers in the vessel based fisheries that are permitted handline. In addition, we would like to do some further consultation on the potential of requiring dockside monitoring for mackerel fisheries in the Maritimes Region. I will be setting up a call with the group in the future, in addition to another email on the matter. In the meantime, please feel free to email or call me if you would like to discuss further.

As always, please feel free to contact me with any comments, questions or concerns.

Respectfully,

Christa

Christa Waters
Regional Senior Fisheries Management Advisor
Resource Management | Gestion des Pêches
Maritimes Region | Région des Maritimes
Fisheries and Oceans Canada | Pêches et Océans Canada
P.O. Box 1006 | C.P. 1006
Dartmouth, NS Canada B2Y 4A2 | Dartmouth, NÉ Canada B2Y 4A2
Christa.Waters@dfo-mpo.gc.ca
Telephone | Téléphone 902-293-6541
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pages 678 to / à 685

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Waters, Christa

From: Waters, Christa
Sent: June-19-17 2:22 PM
To: Cawthray, Jenness
Subject: RE: Mackerel decision?

K, Thanks.
Christa

Christa Waters
Regional Senior Fisheries Management Advisor
Resource Management | Gestion des Pêches
Maritimes Region | Région des Maritimes
Telephone | Téléphone 902-293-6541

From: Cawthray, Jenness
Sent: June-19-17 2:21 PM
To: Waters, Christa
Subject: RE: Mackerel decision?

It's still in MINO. Sorry nothing new to report.

From: Waters, Christa
Sent: June-19-17 1:21 PM
To: Cawthray, Jenness
Subject: Mackerel decision?

Hello Jenness,
Can you give me an update on where we are with the mackerel TAC?
Thanks,
Christa

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Waters, Christa

From: Waters, Christa
Sent: June-19-17 1:21 PM
To: Hiltz, Jennifer; Doniol-Valcroze, Thomas; Reeves, Alan
Subject: MARMAC minutes March 2017 DRAFT_CLW.docx
Attachments: MARMAC minutes March 2017 DRAFT_CLW.docx

Hello Folks,

I have only now managed to get the Maritimes Mackerel Advisory Committee meeting record of discussion drafted. Sorry for the delay. Could you please review and comment on your sections (or the whole thing if you like). Please let me know if I have properly characterized your presentations, offer any comments and suggestions on the feedback.

If at all possible, could you have your review/comments to be by COB June 27th, 2017? Please let me know if you will require more time.

Thank you in advance,

Christa

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Waters, Christa

From: Waters, Christa
Sent: June-21-17 2:52 PM
To: Waters, Christa
Subject: NOTICE - VESSEL BASED MACKEREL LICENCE HOLDERS

Categories: Keep - DO NOT DELETE

NOTICE

MARITIME REGION
VESSEL BASED MACKEREL LICENCE HOLDERS

Fisheries and Oceans Canada (DFO) relies on information submitted by licence holders and operators of licences to support decision making, to monitor management measures and to ensure sustainable harvest. There is a requirement in the vessel based mackerel licence conditions to submit logbook/monitoring information through a dockside monitoring company.

Please be advised that beginning in 2017, the reporting requirements on your licence conditions have changed. The requirement to submit logbook/monitoring information through a dockside monitoring company is changing to weekly from monthly. You are now required to hail out to the Just Talk system prior to your first trip of the week (instructions detailed in your conditions). You are also required to hail in to a Dockside monitoring company every week you have hailed out. This hail-in is required on Sunday and includes NIL REPORTS if you have not fished or caught nothing. Further, you are then required to supply the DMC with a copy of all documents within 7 days of weeks end.

If you have not fished at all during the year, you are required to submit a single copy of the monitoring document to the DMC indicating that you did not fish. This is required by January 10 of the following year.

If you have any further questions about the change, contact **Christa Waters at (902) 293-6541.**

Christa Waters
Regional Senior Fisheries Management Advisor
Resource Management | Gestion des Pêches
Maritimes Region | Région des Maritimes
Fisheries and Oceans Canada | Pêches et Océans Canada
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Castonguay, Martin

De: Mallet, Manon
Envoyé: 6 juillet 2017 11:16
À: Castonguay, Martin
Objet: RE: Avis scientifique sur le maquereau - date prévue de publication?

Un gros merci pour cette réponse rapide.
Je vérifierai moi-même périodiquement le site du CSSC.

MM

From: Castonguay, Martin
Sent: July 6, 2017 12:09 PM
To: Mallet, Manon
Cc: Doniol-Valcroze, Thomas; Cyr, Charley
Subject: RE: Avis scientifique sur le maquereau - date prévue de publication?

Manon,

Je suis surprise de constater qu'il n'est pas encore affiché.

Peut-être que Charley pourrait s'informer quand il sera affiché sur le site SCCS? Ou encore je pourrais le faire moi-même.

Martin

De : Mallet, Manon
Envoyé : 6 juillet 2017 11:04
À : Castonguay, Martin
Objet : Avis scientifique sur le maquereau - date prévue de publication?

Bonjour Martin,
Est-ce que l'avis scientifique du maquereau pourrait être publié sur le site web du SCCS d'ici à la mi/fin d'août?

Merci,
Manon
Coordinatrice éco-étiquetage, Région du Golfe
Eco-labelling coordinator, Gulf Region

Manon Mallet
Strategic Services Branch | Direction des Services Stratégiques
Policy and Economics | Politiques et services économiques
Gulf Fishery Center | Centre des pêches du Golfe
Fisheries and Oceans Canada | Pêches et Océans Canada
343 Université Ave., P.O. Box 5030, Moncton NB E1C 9B6 | 343, av. Université, C.P. 5030, Moncton N.-B. E1C 9B6
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Government of Canada | Gouvernement du Canada

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Patterson, Pauline

De: Gagné, Danie de la part de Lemire, Maryse
Envoyé: July-14-17 2:43 PM
Cc: Gros-Louis, Denis; Naud, Marc; Larochelle, Sarah; Rowsell, Andrew; Lemelin, Dario; Lemire, Maryse
Objet: TR: FYI - Mackerel Bycatch

Pour votre information.

De : de Lafontaine, Yves
Envoyé : 14 juillet 2017 08:49
À : Lemire, Maryse
Cc : Vincent, Patrick
Objet : TR: FYI - Mackerel Bycatch

Maryse,

Des infos sur des captures de maquereau au large de Terre-Neuve l'hiver dernier, ce qui semble être assez nouveau. On suit la situation et des études génétiques sont en cours pour évaluer s'il s'agit du contingent nord-américain ou des errants venus d'Europe où la population est en croissance et en expansion géographique.

Yves de Lafontaine

Directeur, Institut Maurice Lamontagne
Directeur, Direction régionale des Sciences
Pêches et Océans Canada / Gouvernement du Canada
Yves.delafontaine@dfo-mpo.gc.ca Tél. : 418-775-0555 / tél. cell. : [redacted]

Director, Maurice Lamontagne Institute
Director, Sciences regional directorate
Fisheries and Oceans Canada / Government of Canada
Yves.delafontaine@dfo-mpo.gc.ca Tel : 418-775-0555 / Cel. : [redacted]



De : Castonguay, Martin
Envoyé : 14 juillet 2017 08:40
À : de Lafontaine, Yves <Yves.deLafontaine@dfo-mpo.gc.ca>
Cc : Gilbert, Michel <Michel.Gilbert@dfo-mpo.gc.ca>
Objet : RE: FYI - Mackerel Bycatch

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s.19(1)

Bonjour Yves,

C'est moi qui ai informé Julie de ceci en début de semaine.

Un pêcheur de Terre-Neuve que je connais bien m'a informé en juin qu'il avait entendu parler de captures accessoires de maquereau sur les Grands Bancs l'hiver dernier. J'ai mené ma petite enquête et [redacted] m'a fourni des détails. Il semble qu'un chalutier Poisson de fond (sébaste et morue) aurait fait de bonnes captures accessoires de maquereau au sud-est des Grands Bancs en février (queue du Grand Banc). C'est la 1ere fois à ma connaissance que du maquereau est capturé sur les Grands Bancs en hiver. [redacted] m'a donné les coordonnées d'un pêcheur de Port-au-Choix qui était à bord du chalutier et qui a ramené du maquereau. J'ai pu obtenir un échantillon de maquereau de ce pêcheur que je devrais recevoir dans 1-2 semaines. J'enverrai des échantillons de muscle à [redacted] (une collègue espagnole avec qui je collabore) qui mène une étude génétique/génomique pan Atlantique de la structure de stock du maquereau. Il sera intéressant de déterminer l'appartenance de stock de l'échantillon du sud-est du Grand Banc. J'ai déjà fourni des échantillons de maquereau du Golfe et de Terre-Neuve à [redacted] l'hiver dernier. [redacted] a aussi fourni des échantillons US.

Le hic est que le pêcheur en question est craintif de me donner des détails. Je n'ai pas de position ou de date pour l'échantillon car il m'a dit craindre de se faire réprimander par son capitaine. [redacted] a accepté de faire des démarches pour obtenir cette info de base sur l'échantillon. Sans cette info l'échantillon sera beaucoup moins utile.

Voilà où j'en suis. Je peux fournir d'autres détails au besoin,

Martin

De : de Lafontaine, Yves
Envoyé : 13 juillet 2017 17:06
À : Castonguay, Martin; Gilbert, Michel
Objet : TR: FYI - Mackerel Bycatch

Martin,

Es-tu au courant? Il s'agit d'une information qui m'apparaît utile de suivre pour alimenter le dossier d'évaluation.
Peux-tu investiguer et me revenir sur ce point.

Yves de Lafontaine

Directeur, Institut Maurice Lamontagne
Directeur, Direction régionale des Sciences
Pêches et Océans Canada / Gouvernement du Canada
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Director, Maurice Lamontagne Institute

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Director, Sciences regional directorate
Fisheries and Oceans Canada / Government of Canada
Yves.delafontaine@dfo-mpo.gc.ca Tel : 418-775-0555 / Cel. : s.16(2)



De : Landry, Jean
Envoyé : 13 juillet 2017 13:46
À : de Lafontaine, Yves <Yves.deLafontaine@dfo-mpo.gc.ca>; Simon, Patrice (Ottawa) <Patrice.Simon@dfo-mpo.gc.ca>
Cc : McPherson, Arran <Arran.McPherson@dfo-mpo.gc.ca>
Objet : Fw: FYI - Mackerel Bycatch

Interesting.
Jean

Sent from my BlackBerry 10 smartphone on the Rogers network.

From: Marentette, Julie <Julie.Marentette@dfo-mpo.gc.ca>
Sent: Thursday, July 13, 2017 1:44 PM
To: Landry, Jean
Cc: Krohn, Martha
Subject: FYI - Mackerel Bycatch

Hi Jean,

I just wanted to let you know that mackerel have been observed as bycatch on the Grand Bank this winter. This is the first time mackerel have been seen on GB in the winter and samples have been sent for genetic analysis.

FM is aware of this and it certainly adds interest to the forthcoming genetic results this summer (likely August?) trying to figure out what stock the Mackerel from NL are actually from. Some of these winter fish are also being sent for genotyping to see if they match the Canadian stock.

Very interesting news, in any case!

Best regards,

Julie Marentette, PhD

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A/National Manager, Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Julie.Marentette@dfo-mpo.gc.ca /Tel: 613-943-2098
Conseillère scientifique, Sciences des populations halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Julie.Marentette@dfo-mpo.gc.ca /Tél: 613-943-2098

No information has been removed or severed from this page

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Mallet, Pierre

From: Cawthray, Jenness
Sent: July-17-17 10:05 AM
To: Waters, Christa; Mallet, Pierre; Dunne, Erin; Gaudet, Mario; Rivierre, Antoine
Cc: Spence, Koren R
Subject: RE: 2017 Sustainability Survey for Fisheries - Due Monday, July 17

Thank you Christa. I am about to review the survey again now. It looks like I have input from everyone now. I will reflect your comments in the responses if you haven't already. Any oppositions please let me know.
Thanks!
Jenness

-----Original Message-----
From: Waters, Christa
Sent: July-17-17 8:26 AM
To: Cawthray, Jenness; Mallet, Pierre; Dunne, Erin; Gaudet, Mario; Rivierre, Antoine
Cc: Spence, Koren R
Subject: RE: 2017 Sustainability Survey for Fisheries - Due Monday, July 17
Importance: High

Hello,

I just took a look at the survey. I have a couple of comments and made one change.

1. I put competitive quota in addition to TAC. If anyone feels this is inaccurate, please let me know and I can change that.

2. it says that there is a removal reference established for mackerel in the critical zone. I don't believe that there is. What is it? Maybe this was established through the model, but I do not remember it.

From the PA
The Removal reference is the maximum acceptable removal rate for the stock. It is normally expressed in terms of fishing mortality (F) or harvest rate. It could be described in ways other than F or harvest rate but it always must be described in terms of fishery-related pressure that affects the overall stock. The Removal reference includes all mortality from all types of fishing. To comply with the UNFA, the Removal reference must be less than or equal to the removal rate associated with maximum sustainable yield. Both the previous diagrams illustrate how the Removal reference would be adjusted depending on the stock's abundance and its location in the three stock status zones. In the Cautious zone, the adjustment of the Removal reference does not have to follow a linear relationship as shown in the diagram but a progressive reduction in removals is required.

3. the question about if we have a process to review our performance of the IFMP. I believe we do have two processes, the RAP and the Advisory committee. We don't do as much as we should, but we do do some of it, and the process exists. The current answer is no.

4. For question on bycatch management measures for non-retained species. We definitely do. We prohibit the use of monofilament and have a max. mesh size to address the bycatch of Atlantic Salmon. So, the answer should be partially. I may be able to think of others, but would need more time

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5. So, we also should answer yes, that this fishery interacts with SARA species. Not only in the answer about Atlantic Salmon, but gillnets are used and in almost every SARA Document on marine mammals, gillnets are listed as a threat. So, this should be yes as well.

That is my 2-cents. Sorry, you all may have already reviewed this in your discussions.

Christa Waters
Regional Senior Fisheries Management Advisor Resource Management | Gestion des Pêches Maritimes Region | Région des Maritimes Telephone | Téléphone 902-293-6541

-----Original Message-----
From: Cawthray, Jenness
Sent: July-14-17 2:11 PM
To: Mallet, Pierre; Waters, Christa; Dunne, Erin; Gaudet, Mario; Rivierre, Antoine
Subject: RE: 2017 Sustainability Survey for Fisheries - Due Monday, July 17

Thank you!

-----Original Message-----
From: Mallet, Pierre
Sent: July-14-17 12:22 PM
To: Cawthray, Jenness; Waters, Christa; Dunne, Erin; Gaudet, Mario; Rivierre, Antoine
Subject: RE: 2017 Sustainability Survey for Fisheries - Due Monday, July 17

Hi Jenness,

One comment: in the type of gear, hand line and rod and reel should be added, remove longline .

Thanks

-----Original Message-----
From: Cawthray, Jenness
Sent: July-14-17 1:11 PM
To: Mallet, Pierre; Waters, Christa; Dunne, Erin; Gaudet, Mario; Rivierre, Antoine
Subject: FW: 2017 Sustainability Survey for Fisheries - Due Monday, July 17
Importance: High

Hi All!
When you complete this "Do NOT hit SUBMIT" as we will no longer be able to make changes and we will have to start from scratch. Only use the SAVE button!

I know I'm bugging you a lot lately. Can you please review input answers for the 2017 Sustainability Survey for Fisheries. Julie and I have already taken a crack at it. Please note I was required to fill every field before moving to a new question so note that some answers may be incorrect. You can click on the link to start. It will only likely take you about 10 mins. Not too burdensome! Due Monday. Sorry for the short notice.

Your answers to "2016 Sustainability Survey for Fisheries" have been saved. To continue responding, click on the link below. If you click the link and it appears to be broken, please copy and paste it into a new browser window.

https://interceptum.com/si/en/3638139?code=54f554d0b067d911e7b981

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Thank you!
Jenness

-----Original Message-----
From: Cawthray, Jenness
Sent: July-13-17 11:04 AM
To: Marentette, Julie
Subject: FW: 2016 Sustainability Survey for Fisheries - Answers Saved
Importance: High

Hi Julie!!
As discussed! Please note I had to answer every question to move on in the survey even though I did not know all the answers. Please go ahead and input your information. Let me know when you are done.

DO NOT HIT the SUBMIT button! You can use save.

Thank you!
Jenness

-----Original Message-----
From: Interceptum Support [mailto:noreply@interceptum.com]
Sent: July-13-17 10:58 AM
To: Cawthray, Jenness
Subject: 2016 Sustainability Survey for Fisheries - Answers Saved

Your answers to "2016 Sustainability Survey for Fisheries" have been saved. To continue responding, click on the link below. If you click the link and it appears to be broken, please copy and paste it into a new browser window.

https://interceptum.com/si/en/3638139?code=54f554d0b067d911e7b981

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Mallet, Pierre

From: Waters, Christa
Sent: July-17-17 10:07 AM
To: Cawthray, Jenness; Mallet, Pierre; Gaudet, Mario
Subject: RE: MECTS-#3805063-v2-Mackerel_-_funding_proposals_catch_monitoring__July.XLSX

I wonder if there is an opportunity to work with Carl and the large pelagic fishery and traps. These are details that can be worked out in the next few months to a year. For now. I think this is a great idea (although may be problematic logistically depending on the fleet.). I don't think the bait fishery is a logical option though. We should keep it in for now, and determine that later.
C

Christa Waters
Regional Senior Fisheries Management Advisor
Resource Management | Gestion des Pêches
Maritimes Region | Région des Maritimes
Telephone | Téléphone 902-293-6541

From: Cawthray, Jenness
Sent: July-17-17 9:59 AM
To: Waters, Christa; Dunne, Erin; Gaudet, Mario; Mallet, Pierre; Rivierre, Antoine
Cc: Lester, Brian
Subject: MECTS-#3805063-v2-Mackerel_-_funding_proposals_catch_monitoring__July.XLSX

Hi All,
Thanks for your input and discussion last week on this. You quick responses were appreciated! We have an awesome group!
This will be evolving more over time and likely more discussion will be needed on this. Please see attached our current funding proposals for catch monitoring. Once I have additional information, I will plan another group meeting to discuss upcoming issues.
Whatever happened to calmer summers...
Jenness

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s.21(1)(b)

Cormier, Mélanie

De: Cawthray, Jenness
Envoyé: 18 juillet 2017 10:22
À: Mallet, Pierre; Waters, Christa; Dunne, Erin; Gaudet, Mario; Rivierre, Antoine; Lester, Brian
Objet: RE: Question on participation of WWF-Canada in AMAC

From what I remember Brian mentioning, AMAC did not agree to EAC joining [redacted] I guess when we have the early call with AMAC once 50% of TAC is reached we could address this....

From: Mallet, Pierre
Sent: July-18-17 10:14 AM
To: Waters, Christa; Cawthray, Jenness; Dunne, Erin; Gaudet, Mario; Rivierre, Antoine; Lester, Brian
Subject: RE: Question on participation of WWF-Canada in AMAC

Hi

I see no problem of having WWF sitting at the table but we should follow the same approach as we did for the EAC. Ask the AMAC table for their approval.

Thanks

From: Waters, Christa
Sent: July-18-17 10:51 AM
To: Cawthray, Jenness; Dunne, Erin; Mallet, Pierre; Gaudet, Mario; Rivierre, Antoine; Lester, Brian
Subject: RE: Question on participation of WWF-Canada in AMAC

Hello,

The vote was in 2015 or 2016 I believe (I was not on the file at the time). Brian talked about this before the last AMAC when we were anticipating voting for the rec representation.

I feel that we should have balanced representation and that both Recreational fishing interests and ENGO's should be at the table. I also think it's our decision to make, not the people currently sitting at the table. Especially since they often have competing interests. I see no issue with having WWF there.

For your consideration.
C

Christa Waters
Regional Senior Fisheries Management Advisor
Resource Management | Gestion des Pêches
Maritimes Region | Région des Maritimes
Telephone | Téléphone 902-293-6541

From: Cawthray, Jenness
Sent: July-18-17 10:36 AM
To: Waters, Christa; Dunne, Erin; Mallet, Pierre; Gaudet, Mario; Rivierre, Antoine; Lester, Brian
Subject: Question on participation of WWF-Canada in AMAC

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Hi All,

I have a request from MINO regarding EAC's request. Can you provide some intel? Here is the EAC request:

"Ecology Action Center is currently the sole official NGO member of AMAC and the Rebuilding Plan Working Group. We kindly request your support for the inclusion of WWF-Canada as a formal member of these groups to reinforce collaboration and strive to achieve a balanced representation for the benefit of all Canadians"

I'm not sure about the history of EAC participation on AMAC. Was there a vote at the AMAC table? Is there any reason why we would not permit WWF-Canada to join AMAC or the Rebuilding plan working group?

Thank you,

Jenness Cawthray
Senior Fisheries and Aquaculture Management Officer |
Agent principal, Gestion des pêches et de l'aquaculture
Fisheries and Oceans | Pêches et océans
200 rue Kent Street - 13S013 Ottawa, ON, K1A 0E6
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Cormier, Mélanie

De: Cawthray, Jenness
Envoyé: 18 juillet 2017 13:55
À: Lester, Brian; Waters, Christa; Dunne, Erin; Mallet, Pierre; Gaudet, Mario; Rivierre, Antoine
Objet: RE: Question on participation of WWF-Canada in AMAC

Thanks Brian. I will add to the response.

From: Lester, Brian
Sent: July-18-17 1:52 PM
To: Cawthray, Jenness; Waters, Christa; Dunne, Erin; Mallet, Pierre; Gaudet, Mario; Rivierre, Antoine
Subject: Re: Question on participation of WWF-Canada in AMAC

As Pierre noted we have traditionally asked the Committee for their views on any new requests. I have already told the WWF can work through the EAC until the next meeting of AMAC where they can request a seat. I don't think we would do it as part of the call when 50% of TAC is reached as that call will be controversial enough. I think we should suggest that they request a seat on the call we will have to have before next year's plan is established given a one year plan.

Sent from my BlackBerry 10 smartphone on the Rogers network.

From: Cawthray, Jenness
Sent: Tuesday, July 18, 2017 9:35 AM
To: Waters, Christa; Dunne, Erin; Mallet, Pierre; Gaudet, Mario; Rivierre, Antoine; Lester, Brian
Subject: Question on participation of WWF-Canada in AMAC

Hi All,
I have a request from MINO regarding EAC's request. Can you provide some intel? Here is the EAC request:
"Ecology Action Center is currently the sole official NGO member of AMAC and the Rebuilding Plan Working Group. We kindly
request your support for the inclusion of WWF-Canada as a formal member of these groups to reinforce collaboration and strive to achieve a balanced representation for the benefit of all Canadians"

I'm not sure about the history of EAC participation on AMAC. Was there a vote at the AMAC table? Is there any reason why we would not permit WWF-Canada to join AMAC or the Rebuilding plan working group?

Thank you,

Jenness Cawthray
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Mallet, Pierre

From: Gaudet, Mario
Sent: July-18-17 1:56 PM
To: Cawthray, Jenness
Cc: Waters, Christa; Mallet, Pierre; Dunne, Erin
Subject: RE: Mackerel Landings

Landings should continue to increase in the Gulf region until mid-August...
M

From: Cawthray, Jenness
Sent: July-18-17 11:38 AM
To: Mallet, Pierre; Gaudet, Mario; Waters, Christa; Dunne, Erin
Subject: Mackerel Landings

Hi All,
Here are the Mackerel Landings to date.
Can you give me an idea when we may see an acceleration in TAC numbers? When we may near the 50% mark? I may have to plan the AMAC teleconference meeting quickly depending on how landings are proceeding.
Thanks!
Jenness

2017 Mackerel Landings (tonnes)	
Gulf	1186
Maritimes	339
Quebec	165.5
NL	
Total	1690.5
50% of Unofficial TAC	5000

Jenness Cawthray
Senior Fisheries and Aquaculture Management Officer |
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Waters, Christa

From: Cawthray, Jenness
Sent: July-19-17 2:52 PM
To: Dunne, Erin; Mallet, Pierre; Gaudet, Mario; Waters, Christa; Rivierre, Antoine
Subject: FW: Information on key NL fisheries

Importance: High

Hi Folks,
I am submitting a request for a MINO briefing to discuss moving forward on the TAC decision.
Can you provide me with some details on typical harvest levels leading up to Sept? Is there timing where catch levels will start to accelerate?
Is there a deadline in your opinion on when the latest TAC announcement could be?
Thanks!
Jenness

From: Dunne, Erin
Sent: April-24-17 2:20 PM
To: Cawthray, Jenness
Subject: RE: Information on key NL fisheries

I would say "*various dates for fixed and mobile between August 1 and September 2*". The concern is the TAC could be taken before NL has a chance to fish, this is cause for concern in our region, it's important for NHQ to realize that the fishery is later here and there is a risk.

From: Cawthray, Jenness
Sent: April-24-17 3:46 PM
To: Dunne, Erin
Subject: RE: Information on key NL fisheries

Do you think I can simply say starts opening on August 1 in NL. So it is not so technical....

From: Dunne, Erin
Sent: April-24-17 2:14 PM
To: Cawthray, Jenness
Subject: RE: Information on key NL fisheries

1) timing on decision (what's outstanding and real drop dead dates on announcement/fishery opening

- Varies by Region, Maritimes is the first to open. The Department was seeking TAC by May 15, with fishery open as soon as decision is made. In 2016, the first recorded catchers were second week of May in the Maritimes. This year, there have already been numerous requests to open the fishery in the Maritimes Regions.
- In Newfoundland, the fishery opens August 1, Quebec opens June 1 and Gulf opens June 1. (August 25 fixed and mobile gear 3K, September 2 fixed and mobile 3L, August 11 mobile gear 4RSPn, various fixed gear opening dates in August (1 – 23) fixed gear 4R3Pn)
- The fishery has opened in the past without a TAC announcement. If we give the Maritimes the go ahead, they can go ahead and open the fishery. We don't see any negative implications to this.

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2) inshore perspective / expectation – Expectation are that fishery should open very soon.

- There will likely be a negative reaction with a TAC announcement of 16,000t, particularly in NL where a 36,000t TAC was recommended by harvesters. Commercial harvesters and the provinces put forth recommendations to increase the TAC to 20,000t or 36,000t including undeclared catch estimated at 6,000t per year under current monitoring.

3) other considerations

- There are ongoing protests and it is a challenging time to communicate effectively. There is a significant amount of media coverage on the fishery. Pelagic issues are very sensitive.

From: Cawthray, Jenness
Sent: April-24-17 3:21 PM
To: Rivierre, Antoine; Dunne, Erin; Waters, Christa; Gaudet, Mario; Mallet, Pierre; Thomas, Tashina
Subject: FW: Information on key NL fisheries
Importance: High

Hi Everyone,

I am looking for a very quick turnaround on this given all the issues in NL of late? Can you provide ASAP. Sorry for the tight timeline! I have spoken to Christa and made an attempt with the response.
Thanks!
Jenness

1) timing on decision (what's outstanding and real drop dead dates on announcement/fishery opening

- Varies by Region, Maritimes is the first to open. The Department was seeking TAC by May 15, with fishery open as soon as decision is made. In 2016, the first recorded catchers were second week of May in the Maritimes. This year, there have already been numerous requests to open the fishery in the Maritimes Regions.
- In Newfoundland, the fishery opens August 1, Quebec opens June 1 and Gulf opens June 1.
- The fishery has opened in the past without a TAC announcement. If we give the Maritimes the go ahead, they can go ahead and open the fishery. We don't see any negative implications to this.

2) inshore perspective / expectation – Expectation are that fishery should open very soon.

- There will likely be a negative reaction with a TAC announcement of 16,000t, particularly in NL where a 36,000t TAC was recommended by harvesters. Commercial harvesters and the provinces put forth recommendations to increase the TAC to 20,000t or 36,000t including undeclared catch estimated at 6,000t per year under current monitoring.

3) other considerations

-

From: Lester, Brian
Sent: April-24-17 1:03 PM
To: Cawthray, Jenness; Courchesne, Sandra; Kerwin, Jessica

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Cc: Burns, Adam; Jenkins, Randy; Buie, Jennifer
Subject: Information on key NL fisheries

Hello ladies: Adam is looking for some information by end of day on 6 key species. What he is looking for (I believe) is to address 3 main issues (see headings below) . Use these three headings and fill in a couple of points for each in terms of NL. Key species/fisheries: 2+3 herring (Jess), Coastal and Gulf Halibut (Sandra), Northern cod (Sandra), mackerel and seals (Jenness). Jess I am not sure what you will be able to find out on that one given it is regionally managed and Advisory has already taken place but look at memo you found other day.

1) timing on decision (what's outstanding and real drop dead dates on announcement/fishery opening
2) inshore perspective / expectation
3) other considerations

Sent from my BlackBerry 10 smartphone on the Rogers network.

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Waters, Christa

From: Waters, Christa
Sent: July-26-17 1:09 PM
To: Hiltz, Jennifer; Singh, Rabindra; Surette, Dwayne E; Reeves, Alan; Daye, Christopher P; Doniol-Valcroze, Thomas
Subject: MARMAC minutes March 2017 DRAFT_CLW.docx
Attachments: MARMAC minutes March 2017 DRAFT_CLW.docx

Follow Up Flag: Follow up
Due By: August-08-17 3:00 PM
Flag Status: Completed

Hello,

Attached are the minutes from the Mackerel Advisory Committee meeting in March. Please have a read. I would appreciate any comments, suggestions edits and correction that you have to offer. Once I have heard from the DFO ppl, I will send it out to the email list for mackerel for comment.

Please have comments to me by August 9, 2017.

Thanks,

Christa

Christa Waters
Regional Senior Fisheries Management Advisor
Resource Management | Gestion des Pêches
Maritimes Region | Région des Maritimes
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Meeting Minutes

Maritimes Mackerel Advisory Committee Meeting

March 23, 2017, 13:00-16:00

Agenda Items and Corresponding Discussion Notes

	TOPIC	LEAD
1.	Introductions	Lead: Christa Waters
	Highlights/Outcome: • This meeting is the second annual meeting of the regional mackerel advisory committee. Our objective is to discuss and provide advice on matters relevant to the current management of mackerel fisheries in Maritimes Region and to prepare for upcoming Atlantic Mackerel Advisory Committee meeting. • The expectation is that this meeting will be held prior to the Atlantic Mackerel Advisory Committee (AMAC) meeting bi-annually and/or as needed. The two main roles for this committee will be 1) to provide a forum to focus on regional fisheries issues and regional management measures; and 2) to prepare for AMAC through considering regional issues/perspectives and how they might feed into the Atlantic-wide discussions. For Action: None	
2.	Science Update	Lead: Thomas Doniol-Valcroze
	Highlights/Outcome: • Thomas reviewed the science assessment results from the framework and assessment that took place between January and March 2017. • Thomas noted the depleted state of the Atlantic mackerel stock, as indicated by the assessment. • A new assessment framework incorporated work completed to help address the issue of unreported catch, including a project aimed at developing a model that incorporates a proxy for unreported bait catches by looking at the bait needs of 3 major fisheries using mackerel as bait (lobster, crab, and tuna). • Thomas reviewed the stock origins of various Atlantic mackerel populations. We know through recent studies that the Can/US mackerel are separate form European mackerel. There are current studies ongoing to look in detail on the difference between the two spawning contingents in this side of the Atlantic. • Christa advised that the science team has been missing samples from the Maritimes Region fisheries and requested everyone consider if they would be willing to assist Science to get the required samples. • An industry member asked about when mackerel spawn in the Bay of Fundy and throughout the Atlantic Provinces. • An industry member comment on the clear, high quality presentation provided by Thomas. For Action: • Thomas to provide presentation when it's approved for distribution. • All – Provide Christa with your name if willing to provide samples for science	

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	• Christa will facilitate communication between industry members in the Maritimes that will help with samples and DFO Science in Quebec.	
3.	**Update on Marine Mammal Update**	Lead: Alan Reeves
	Highlights/Outcome: • Alan reviewed the Action Plan for the North Atlantic Right Whale in Canada: Fishery Interactions and the changes to the USA market requirements focused on Marine Mammals. • Alan talked about the development of a questionnaire on gear configuration to collect baseline information on mackerel gear configuration. This has been done for other fisheries in the Region. • DFO wants to ensure that any suggested measures: (1) effectively reduce the risk and/or severity of entanglement, and (2) minimize the impacts of importation regulations to industry • The summarized information gathered from the questionnaire may prove very useful in demonstrating to the U.S. that many of the current practices by industry fulfill the objective of limiting negative impacts on marine mammals. • Information on gear configuration will help define methods to measure the effectiveness of mitigation strategies. Some of the strategies that have been adopted by the U.S., particularly in the lobster fishery (such as weak links, sinking groundlines, etc.) may not have been as effective as hoped. For Action: • Alan will work with Christa to send out email to develop questionnaires on gear configuration. • Christa to provide Alan's contact information to the group.	
4.	**Preliminary discussion on regional views regarding 2017 Canadian Atlantic Mackerel total allowable catch (TAC)**	Lead: Christa Waters
	Highlights/Outcome: • Christa noted that a full discussion on TAC recommendations will occur at AMAC; the purpose of this discussion is to help identify and focus on what the views are regionally. • She also noted that based on the most recent assessment, the stock is in the critical zone. • An industry member asked if we could request an increase in TAC. Christa responded that yes, this can be done, but would have to be at the AMAC meeting where that discussion takes place. For Action: • All – To consider what the appropriate TAC recommendations should be in light of the Science information available and subsequently provide these recommendations to the representatives attending the AMAC.	
2.	**Discuss committee membership, Terms of Reference**	Lead: Christa Waters
	Highlights/Outcome: • Since there has not been a regional-level mackerel advisory committee in Maritimes Region in many years, new terms of reference (ToRs) continue to be developed to guide the work of this group. • Some of the text for fishery advisory committee ToRs is fairly standard across committees and a draft was provided to the group prior to this meeting. There has been some feedback and this will be incorporated into the next draft. • How we define the membership of this committee needs still needs to be considered. Membership should include whoever we think ought to be part of this group to help ensure it represents a good variety and balance of perspectives from the various interests involved. • It was noted that management boards/fishermen's associations should be at the table, rather than individual fishers who only represent themselves. • It was noted that while it is important to have representation from all interests at the table, moreover	

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	the group has to be maintained at a size that will ensure it is effective. Christa suggested 15-20 stakeholders other than DFO or provincial government. • [redacted] requested that his name be circulated to the group through the record of discussion as he intends to start a new association. For Action: • Christa to develop first draft of membership keeping in mind the size of the group and structure of the industry. It will be tabled for review through email and/or conference call. • [redacted] contact information to be circulated with record of decision – [redacted]	
6.	**Discussion of other (regional) management measures for 2016**	Lead: Christa Waters
	Highlights/Outcome: • The strong message from DFO Science that we need to be able to better monitor what is being caught in all mackerel fisheries was highlighted. • It was also noted that the proposal for a regulatory change to add a season and a bag limit for the recreational mackerel fishery (Atlantic-wide) is still in progress. Improving Monitoring in the Mackerel Fishery • To improve monitoring and reporting for the mackerel fishery, Christa proposed that requiring hailing out and in on a trip by trip basis and some level of DMP. This would enable us to have more up to date information on landings of mackerel through the season, and would also make it possible for C&P to do some spot checks on landings from time to time, and/or possibly allow for some level of dockside monitoring of catches now or in the future. That could give us higher confidence in the landings amounts that are being reported, and also provide an opportunity to monitor things like fish size. • It was indicated by a representative for the St. Margaret's Bay trapnet fishery that it would not be practical for a trapnet fisher to hail every time they wanted fished their trap. Others expressed concern that the cost of DMP for trips where only a few pounds of mackerel are caught would not make sense. • Christa indicated that everyone should give some thought to what might be the best approaches to achieve better catch monitoring in the mackerel fisheries, as additional steps are required. • It was suggested that some would like to go to using e-logs to improve the monitoring in the bait and commercial fisheries. Christa noted that this is something that is going to be worked on in Gulf/Quebec region shortly, but not rolled out to the Maritimes Region this year. • An industry member asked if the delinquent log policy was in all fisheries. Christa noted that no, it's only in fisheries where compliance issues were identified. She stated that she has not completed an assessment on the compliance of logbook submissions for the mackerel fishery; however, this is something that should be done. • Another industry member noted that there will be no incentive to comply to any increase in reporting as it will run the risk of shutting down the fishery earlier in the season and the licence holders that fish later in the season will not have an opportunity to fish. Christa noted that if we have better data on landings then we get a better stock assessment and better management of the resource. Update on request to add handline to personal bait licences • Currently, the personal bait licences are for using gillnet only, though there's been interest expressed in being able to fish bait using handline. However, given the critical status of the stock, we don't want to make changes that will result in increased gear and effort in the fishery, so we need to consider how best to go about this. • One option would be that you would have to choose between having gillnet or handline as the gear type on your bait licence, not being able to fish both gear types at once. An industry representative	

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	indicated that you need gillnet to catch herring and hook and line to catch mackerel, so if you have to choose you'd only be able to target one species. • Christa updated further that since there has been staff turn-over on this file, this item has not yet been addressed. In addition, there are other regions that have had similar requests. This item has been pushed to the National level and will be on the agenda for AMAC. Christa noted that she would look further into this over the coming year. Use of Autojiggers/Mechanical devices • The use of automated jiggers in the mackerel fishery came up. It was noted that fishers have been permitted to use automated jiggers when they hold a handline licence for mackerel. It was noted that all other regions limit the number of automatic jiggers/lines and or hooks with the exception of Maritmes Region. She also indicated that a limit on the number of lines that may be fished at one time should be added. She noted for comparison and consideration that the limit on the number of lines that may be used with an automated jigger in the groundfish fishery is 4. The maximum allowed in Mackerel fisheries in other Regions: o Gulf – two mechanical devices or three handlines, and a mechanical device is limited to a maximum of four single lines, with a maximum of 100 hooks in the aggregate. o NL – A maximum of three handlines or two mechanical devices are permitted. o Quebec - a maximum of 200 single hooks for all the mechanical devices; or max of six handlines • Christa requested feedback on what would be an appropriate limit on these. Variation Order Clean-up • There has been a move to review all old and still active Variation Orders (VO). The VO 2006-050 will be revoked and currently has the gillnet/handline season open year round. Given the current state of the stock and the nature of the fishery (no one is fishing in Jan/Feb) what would be more appropriate? • It was suggested by some licence holders that there is no fishing until April, so that a closure from Jan 1 – March 31 would be appropriate. As fishing can occur right up until December in some years. • One licence holder requested splitting up the season for the whole mackerel fishery as there is concern about the fishery getting shut down when the TAC is reached and those that generally fish later in the year will not have an opportunity to fish. Christa noted that changes that would affect other regions would need to be discussed at AMAC. For Action: • All - everyone provide feedback on achieving better catch monitoring, as additional steps are required. • Christa – Investigate the request to add Hanline to bait licences over the coming year. • All – Consider what might be appropriate limitations on autojiggers/Mechanical devices as this Region is the only Region without limits. • Christa – Reissue VO 2006-050 for a closed time on handline/gillnet licence to be from Jan 1 – March 31, annually and post online.	
7.	**Safety at sea**	Lead: Christa Waters
	Highlights/Outcome: • This will be a standing agenda item to provide an opportunity for meeting participants to raise any issues related to safety, suggest any ways we might better take safety considerations into account in the ways we manage the mackerel fisheries, suggest presenters or presentation topics related to safety,	

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etc.

- No comments were made.

For Action:

- All Advisory Committee participants to advise Christa Waters if you would like to present, suggest presenters, or propose topics for future meetings related to safety in the fishery.

Participants	
In Attendance	
NAME	**POSITION**
	Fundy Weir Fishermen's Association
	Fundy Weir Fishermen's Association
	St Margaret's Bay Trap Net
	UINR
	Guysborough County Inshore Fishermen's Association
	BIFA Digby Group
	Queens County Fish and Game Association
	NS Recreational Fishing
	Guysborough County Inshore Fishermen's Association
	PAFFA
	Licence Holder
	Grand Manan Fishermen's Association
	Lobster Council of Canada
	Seafood Producers Association of NS
	Comeau's Seafood
	Sea Crest Fisheries
Brian Boone	NB Provincial Government
	Ecology Action Centre
	Ecology Action Centre
	Bait Buyer
	MFU Local 9
	Halifax West Commercial Fishermen's Association
	St Margaret's Bay Trap Net
	Cape Breeze Seafoods
	Scotia Garden Seafood Inc.
	Connors Bros.
Rabindra Singh	DFO - Science
Christa Waters	DFO – Resource Management
Dwayne Surette	DFO Resource Management – SWNS Area Office
Alan Reeves	DFO – Resource Management
Chris Day	DFO – Conservation and Protection
Jennifer Hiltz	DFO Resource Management – SWNB Area Office
Thomas Doniol-Valcroze	DFO Science - Quebec

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Krohn, Martha

From: Krohn, Martha
Sent: July-27-17 5:07 PM
To: Castonguay, Martin; Lambert, Yvan
Cc: Marentette, Julie; Smith, Andrew (IML); Simon, Patrice (Ottawa); Doniol-Valcroze, Thomas; de Lafontaine, Yves
Subject: FW: Atlantic Mackerel
Attachments: U 2017-045-00376 Associate DM Approved.pdf

Categories: Red Category

From: Krohn, Martha
Sent: July-27-17 5:05 PM
To: Castonguay, Martin
Cc: Marentette, Julie; Smith, Andrew (IML); Simon, Patrice (Ottawa); Doniol-Valcroze, Thomas; de Lafontaine, Yves
Subject: FW: Atlantic Mackerel

Bonjour Martin et Yvan,
Selon l'aménagement, la note de service a été signé aujourd'hui par le ministre avec un TAC de 10 000 comme discuté au mois de mai.
(La note ci-joint n'est pas celle avec la signature du ministre). Quand on le reçoit, on va vous l'envoyer.
Merci pour tous la bonne travail et cooperation de l'équipe maquereau!
Martha

Pages 3444 to / à 3479

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11/05/17
17:15 PM

Docket # : 2017-045-00376
Xref # :
Date Created : 19/04/17

HISTORY REPORT

Lead : NCR_EFM_FRM
ILO : NCR_MINO
ILO Due :

Subject : 2017 atlantic Mackerel management measures

Instructions:

Assigned By	Assigned To	Task	Assign Date	Deadline	Completed date
045	NCR_EFM_FRM	PREP	11/05/17		11/05/17
045	NCR_EFM	APP	11/05/17		11/05/17

Comments:
- Received. Will send to EOS for simultaneous approval. Original with Chris for Sylvie's approval KaletaM 11/05/17 9:50 AM

045	NCR_EOS	APP	11/05/17	5/11/2017	

Note: For urgent simultaneous approval. Will HD copy to EOS shortly.

007	NCR_EOS_ESD	APP	11/05/17	5/11/2017	11/05/17

Note: For urgent approval. In ADMO for pickup
Comments:
- Hand-D to FPS (C-A office) for rush approval by NOON. MurrayMM 11/05/17 11:06 AM
- Approved by Acting DG Alain V. with comments and Hand-D to SADMO for urgent approval MurrayMM 11/05/17 2:31 PM

007	NCR_EOS_ESD_FPS	APP	11/05/17	5/11/2017	11/05/17

Note: Hand-D to FPS (Martha directly) for rush approval by NOON
Comments:
- Hand deliver to DGO by Jean Landry. BoudreauCAnn 11/05/17 1:21 PM

045	NCR_EFM_FRM	REVISE	11/05/17	5/11/2017	11/05/17

Note: to revise. Chris to HD to FRM

045	NCR_EFM	APP	11/05/17		11/05/17
045	NCR_DM	APP	11/05/17		

Comments:
- Received in DMO MarroquinR 11/05/17 5:15 PM

Attachments
2017 ATLANTIC MACKEREL MANAGEMENT MEASURES.DOCX
2017 ATLANTIC MACKEREL MANAGEMENT MEASURES.DOCX

to Ashley : 2017-05-11 - 5:20 pm.

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Krohn, Martha

From: Marentette, Julie
Sent: July-27-17 3:15 PM
To: Cawthray, Jenness
Cc: Krohn, Martha
Subject: RE: Materials for Mackerel TAC
Attachments: ML_Mackerel_TAC.DOCX; MECTS-#3806390-v1-2017 _Mackerel_Landings__Evergreen.xlsx; MECTS-#3810595-v1-AMAC_Notice_TAC_ 2017.docx; DFO Website_TACannoucement.docx

Categories: Red Category

Hi Jenness,

Our DG/ADMO may have additional comments on the media lines, forthcoming.

Thanks,

Julie Marentette, PhD

Science Advisor, Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Julie.Marentette@dfo-mpo.gc.ca /Tel: 613-943-2098

Conseillère scientifique, Sciences des populations halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Julie.Marentette@dfo-mpo.gc.ca /Tél: 613-943-2098

Like DFO on Facebook/Aimez le MPO sur Facebook

From: Cawthray, Jenness
Sent: July-27-17 3:02 PM
To: Dunne, Erin; Waters, Christa; Mallet, Pierre; Gaudet, Mario; Rivierre, Antoine
Cc: Marentette, Julie; Lester, Brian
Subject: Materials for Mackerel TAC
Importance: High

Hi Everyone,
Here are all the draft materials and draft comm lines for the TAC announcement. Please note that TAC will be announced once we have finalized the documents. It would be appreciated if you could review the website material and notice as soon as possible and let me know if you have any concerns.

- Website
- Notice to AMAC
- Comm lines
- Mackerel landings

Do you have any concerns that I removed the sharing arrangements section from the TAC or do you think this will raise alarm bells from industry.

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Thanks!

Jenness Cawthray
Senior Fisheries and Aquaculture Management Officer |
Agent principal, Gestion des pêches et de l'aquaculture
Fisheries and Oceans | Pêches et océans
200 rue Kent Street - 13S013 Ottawa, ON, K1A 0E6
Jenness.Cawthray@dfo-mpo.gc.ca
Telephone | Téléphone (613) 998-1524
Facsimile | Télécopieur (613) 990-7051
Government of Canada | Gouvernement du Canada

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DRAFT

MEDIA LINES

Atlantic Mackerel Total Allowable Catch 2017

Issue

On July XX (TBC), Fisheries and Oceans Canada (DFO) will announce the 2017 Total Allowable Catch (TAC) decision for the Atlantic Mackerel fishery. The TAC for the commercial catch in 2017 will be set at 10,000 tonnes, which is an increase from the 2016 TAC of 8,000 tonnes. Given increased reporting requirements it is anticipated that undeclared/unreported catches will be significantly reduced this year. The department can expect media calls on the decision, as industry's expectations were for a significant TAC increase, however their request was not supported by the science advice (which the Department has followed). We would expect that there will also be negative reaction from the Ecology Action Center and some Indigenous groups that suggested a reduced harvest level given the stock is assessed to be in the critical zone.

The Atlantic Mackerel Advisory Committee meeting took place on March 30 in Halifax, Nova Scotia. DFO chaired the meeting and participants included upwards of 60 stakeholders, including Indigenous groups, harvesters, processors, environmental non-government organizations, and the four Atlantic Provinces and Quebec.

Media lines

- The 2017 Total Allowable Catch for the commercial fishery is set at 10,000 tonnes under a one-year management plan. This increase recognizes both the projected increases in the biomass over the coming year and the commitment to address unreported landings in the fishery.

- Fisheries management decisions for all stocks, including Atlantic mackerel include consideration of the best available science as well as input from Indigenous groups, harvesters, processors, environmental non-government organizations and the provinces.

- The Department undertook a new and detailed stock assessment for Atlantic mackerel this spring. This new assessment was discussed with members of the Atlantic Mackerel Advisory Committee on March 30 and input from stakeholders played an important role in the department's TAC decision.

- While the science assessment has shown some signs of slight improvement in the stock, the stock assessment indicates that the stock remains in the critical zone under DFO's Precautionary Approach framework.

- The established harvest level allows for a greater than 75% probability that the stock biomass will continue to increase at the established harvest level. This corresponds to a high probability of growth and reflects the Department's commitment to the

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Precautionary Approach. Specifically, with a commercial TAC of 10,000 tonnes and estimated bait and recreational landings of 6,000 tonnes [redacted] taking into account improved catch monitoring in the fishery.

- Fisheries and Oceans Canada is committed to balancing economic opportunity and financial stability of the Atlantic mackerel fishery while promoting the sustainability of this resource.

- The Department has established a one-year TAC in line with the industry request to revisit the harvests level at the end of the 2017 fishery.

If pressed:

- Management decisions for this fishery consider long-term conservation and sustainability of the stock and take into account the best available science, the Department's management plan, and views expressed by stakeholders during consultations with industry.

- Industry views are that the overall biomass is significantly larger than the science would indicate based on what they experienced in the 2016 fishery.

- The Department has initiated a DFO/industry rebuilding plan working group for this stock that will meet over the coming year to develop a plan for consideration by the Atlantic Mackerel Advisory Committee to support rebuiliding the stock into the Healthy Zone of the Precautionary Approach Framework

If pressed on judicial review:

- The Department will not comment on this matter, as it currently before the Court.

Spokesperson: Adam Burns

Program Contact: Brian Lester, Adam Burns

Communications Contact: Kayla Beamish

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2017 Mackerel Landings (tonnes)

Gulf	1574	Could be approximately 10% higher due to underreporti
Maritimes	415	
Quebec	180	
NL	0	
Total	2169	
50% of Unoffical TAC	5000	

AS of July 27th

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ıg in hail-in catch estimate...(~1,731 mt)

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Government of Canada
Fisheries and Oceans

EKME# 3596290v2
AAJ-4905-_100-1

To:
Pour : Adam Burns

Date:

Subject:
Objet :

Letter to ASAC members:

ATLANTIC SEAL ADVISORY COMMITTEE MEETING NOTICE

From: Jenness Cawthray, Sr. Officer – RM-Atlantic

Via: Jennifer Buie, Manager – RM-Atlantic

[X] Your Signature / Votre signature	[ ] Information
[ ] For Comments / Observations	[ ] Material for the Minister / Documents pour le ministre

Drafting Officer : Jenness Cawthray

Related doc's verified by: ____ / ____ / ____

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s.21(1)(b)

Atlantic Mackerel – NAFO Subareas 3 and 4

Dates of season (subject to change)

June to November

Total Allowable Catches

TAC of 10,000 tonnes for 2017

[redacted]

Management Measures

A Canadian total allowable catch of 10,000 tonnes for 2016.

[redacted]

Minimum fish size for commercial mackerel retention remains at 263mm (status quo from 2015).

Single or Multi-year Planning

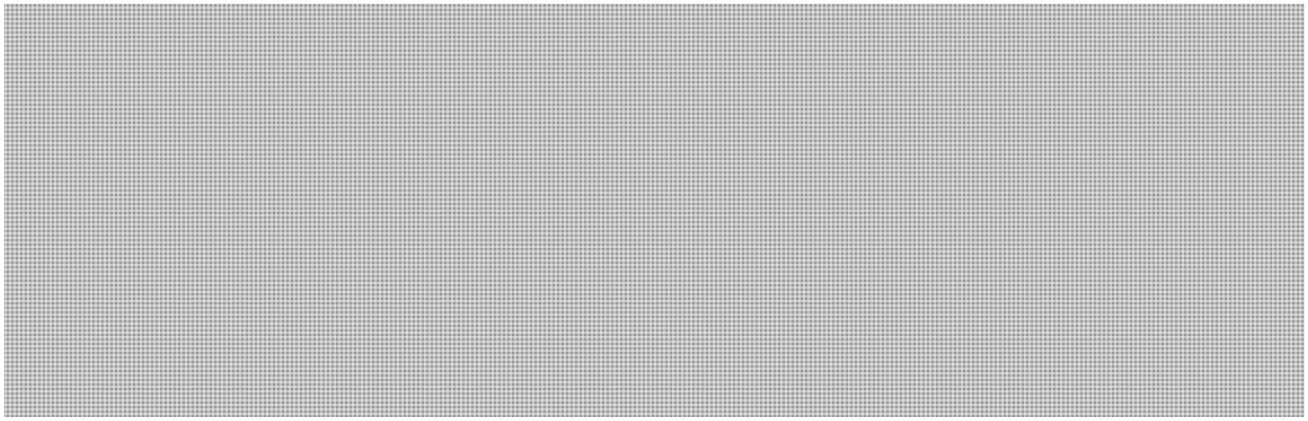
This decision is for this year (2017) only.

Additional Information

The Department undertook a new stock assessment for Atlantic mackerel in the spring of 2017 and presented the results to the 2017 Atlantic Mackerel Advisory Committee. While the science

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assessment has shown some signs of slight improvement in the stock, the stock assessment indicates that the stock remains in the critical zone under DFO's Precautionary Approach framework.



Links to other information

- ATLANTIC MACKEREL - Effective 2007

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TO: ATLANTIC MACKEREL ADVISORY COMMITTEE (AMAC)/ AU: COMITÉ CONSULTATIF DE MAQUEREAU ATLANTIQUE (CCMA)

ATLANTIC MACKEREL ADVISORY COMMITTEE (AMAC)	COMITÉ CONSULTATIF DE MAQUEREAU ATLANTIQUE (CCMA)
The Minister has set the Total Allowable Catch (TAC) for the Atlantic Mackerel fishery for 2017. The 2017 TAC for the commercial catch is set at 10,000 tonnes, which is an increase from the 2016 TAC of 8,000 tonnes under a one-year management plan. The Department will hold a conference call with the AMAC in early September 2017 to review landings and consult on sharing arrangements for the 2017 fishery.	

Brian Lester
Chair/Président

ATLANTIC MACKEREL ADVISORY COMMITTEE (AMAC)/ COMITÉ CONSULTATIF DE MAQUEREAU ATLANTIQUE (CCMA)

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Krohn, Martha

From: Krohn, Martha
Sent: July-27-17 3:01 PM
To: Simon, Patrice (Ottawa)
Cc: Marentette, Julie; Thompson, Susan
Subject: FW: Atlantic Mackerel
Attachments: SCIENCE LINES 170727.docx; Atlantic Mackerel 101 March 28 2017.docx

Categories: Red Category

Patrice, a reminder that we never sent the requested science lines to ADMO. The other pkg was the media lines. May not be required but we should send anyway since it was requested and Julie drafted them?
You had asked me to send the e-mail below to you (for Arran).
Thanks,
Martha

From: Krohn, Martha
Sent: July-27-17 1:02 PM
To: Simon, Patrice (Ottawa); Thompson, Susan
Cc: Marentette, Julie
Subject: FW: Atlantic Mackerel

Hi Arran,
Please find attached requested science lines on mackerel.
We have heard from EFM that the memo has been signed, this has not been confirmed.
The 101 was developed previously and may be of use.
Media line will be sent separately.
Thanks and happy to discuss.
Patrice

From: Krohn, Martha
Sent: July-27-17 12:10 PM
To: Simon, Patrice (Ottawa); Nadeau, Simon
Cc: Lacroix, Marc-André; Thompson, Susan; Marentette, Julie
Subject: RE: Atlantic Mackerel

Hi Patrice,
Please find attached some information provided by Julie. Thanks Julie!
We heard from EFM that the memo has been signed, so not sure where that leaves us with this piece!
Thanks,
Martha

From: Simon, Patrice (Ottawa)
Sent: July-26-17 6:07 PM
To: Nadeau, Simon
Cc: Krohn, Martha; Lacroix, Marc-André; Thompson, Susan
Subject: FW: Atlantic Mackerel

Simon,
Can we work on some lines for the science side on this. I expect that the official request will come soon. Patrice

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From: McPherson, Arran
Sent: Wednesday, July 26, 2017 5:02 PM
To: Simon, Patrice (Ottawa) <Patrice.Simon@dfo-mpo.gc.ca>
Cc: White, Andrea <Andrea.White@dfo-mpo.gc.ca>
Subject: FW: Atlantic Mackerel

Hi Patrice, I think that the region had a deck ready for a tech briefing at one point so hopefully, those can be turned into some lines if not already done. Arran

From: Trudeau, Miriam
Sent: Wednesday, July 26, 2017 4:59 PM
To: Burns, Adam <Adam.Burns@dfo-mpo.gc.ca>; Lapointe, Sylvie <Sylvie.Lapointe@dfo-mpo.gc.ca>; Hubley , Marian <Marian.Hubley@dfo-mpo.gc.ca>; McPherson, Arran <Arran.McPherson@dfo-mpo.gc.ca>
Cc: French, Christopher <Christopher.French@dfo-mpo.gc.ca>; White, Andrea <Andrea.White@dfo-mpo.gc.ca>; Quinn, Caroline <Caroline.Quinn@dfo-mpo.gc.ca>; Butcher, Ashley <Ashley.Butcher@dfo-mpo.gc.ca>; Hopkins, Lillian <Lillian.Hopkins@dfo-mpo.gc.ca>; Malko, Carol <Carol.Malko@dfo-mpo.gc.ca>; Patrick, Lindsey <Lindsey.Patrick@dfo-mpo.gc.ca>
Subject: Atlantic Mackerel

Hello:

MINO has indicated that the Minister will be signing this docket. Could the Department be prepared with lines regarding management measures and science in case there are any concerns/questions?

I do not yet have the physical signed docket but MINO wanted to flag this information urgently. I have attached an electronic copy of the docket that was signed by the Associate and went into MINO.

Thanks,

AB

Miriam Trudeau
A/Director, Departmental Liaison
Directrice / intérimaire, Liaison ministériel

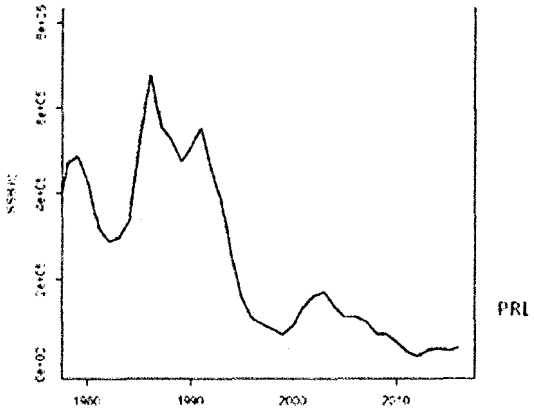
Fisheries and Oceans Canada | Pêches et Océans Canada
200 Kent Street | 200, rue Kent | 15N114
Ottawa, Canada K1A 0E6
(613) 947-4557 | miriam.trudeau@dfo-mpo.gc.ca

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SCIENCE LINES: Atlantic Mackerel – 2017 TAC Decision

Stock Status

- Atlantic Mackerel status is **Critical** (SSB_{2016} = 40,000 t, SSB_{2017} = 48,000 t, LRP = 103,000 t)
- Age structure has broadened slightly: In 2014 assessment, reported as contracting (6 to 12 year-old age-classes and above had been lost). In 2017, more 5- and 6-year-old fish present, and there are some weak indications (commercial sampling data and industry observations) that there may have been a strong 2015 year class. However, more data are needed to confirm this (e.g., the 2017 egg survey).



- Based on the 2017 assessment, Atlantic Mackerel spawning stock biomass (SSB) has been decreasing steadily since the early 2000's, part of a longer term decline starting around 1990.
- Under an estimated total catch of 16,000 t, the new stock assessment model predicts [redacted]

Old vs. New Assessments

- Old method: The Sequential Population Analysis model used only declared catches and did not have a way to account for undeclared catch. This lead to unrealistically low biomass estimates and therefore sustainable TAC levels were under-estimated.
- New method: Censored statistical catch-at-age (SCA) model that sets upper and lower bounds to accommodate an uncertain quantity of undeclared catch in the mackerel fishery. This led to much higher biomass estimates (10 X the previous model) but the same strong pattern of decline is still apparent and the relative status has not changed significantly, although a small increase in biomass has been seen since 2012.

Undeclared Catches

- Undeclared catches include: fish caught as bait for personal use, sold fisher-to-fisher, recreational landings, discard mortality and as a result of unfilled logbooks.
- DFO conducted an internet survey of recreational/bait use in Atlantic Canada. This information was used to set the 'upper bound' of the 2017 assessment (SCA) model.
- The assessment results suggested that undeclared catches ranged from 50-100% of declared catches.

Industry Views

- Industry view generally is that the Mackerel stock is in better shape than it is according to the DFO stock assessment; their experience fishing is that Mackerel abundance is not as low as it is estimated.

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- Industryfeel that the stock is cyclical and at the 2017 assessment, reported large amounts of young Mackerel in multiple regions (potentially representing the 2015 year class).
- However it must be noted that Mackerel are schooling fish and stick to a narrow temperature range and therefore can be caught in large numbers even at low abundance. Because of this high degree of local aggregation, Mackerel are easy to deplete to very low levels and high abundance cannot be inferred from high catches in localized areas.

Science Consensus

- There is high certainty in the declining stock trend that was present in both the 2014 and 2017 assessment models, even though the models were different and the 2017 assessment model predicts a SSB of 40,000 t in 2016 and 48,000 t in 2017 (a quantity 10-fold higher than in 2014, reflecting the improved estimates of catch, and the model's ability to handle uncertainty in catch).
- The estimated SSB for the whole NW Atlantic Mackerel population including the American component is highly correlated to the SSB assessed from the Canadian assessment, indicating that the Canadian assessment (calibrated by egg densities in the Gulf) may be a good index of the SSB trend of the whole population.

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Krohn, Martha

From: Marentette, Julie
Sent: July-27-17 12:28 PM
To: Cawthray, Jenness
Cc: Krohn, Martha
Subject: RE: Atlantic Mackerel

Categories: Red Category

Hi Jenness,

We suggest the following:

The Department undertook a new stock assessment for Atlantic mackerel in the spring of 2017 and presented the results to the 2017 Atlantic Mackerel Advisory Committee . While the science assessment has shown some signs of slight improvement in the stock, the stock assessment indicates that the stock remains in the critical zone under DFO's Precautionary Approach framework.

Thanks! Let me know if you need anything else.

Julie Marentette, PhD

Science Advisor, Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Julie.Marentette@dfo-mpo.gc.ca /Tel: 613-943-2098

Conseillère scientifique, Sciences des populations halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Julie.Marentette@dfo-mpo.gc.ca /Tél: 613-943-2098

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From: Cawthray, Jenness
Sent: July-27-17 12:08 PM
To: Marentette, Julie
Cc: Krohn, Martha
Subject: RE: Atlantic Mackerel

Thanks!

From: Marentette, Julie
Sent: July-27-17 12:01 PM
To: Cawthray, Jenness
Cc: Krohn, Martha
Subject: RE: Atlantic Mackerel

Document Released Under the Access to Information Act / Document divulgué en vertu de la Loi sur l'accès à l'information.

Hi Jenness,

We are working on your wording. The SAR is not yet available.

Best regards,

Julie Marentette, PhD

Science Advisor, Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Julie.Marentette@dfo-mpo.gc.ca /Tel: 613-943-2098

Conseillère scientifique, Sciences des populations halieutiques
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Julie.Marentette@dfo-mpo.gc.ca /Tél: 613-943-2098

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From: Cawthray, Jenness
Sent: July-27-17 11:00 AM
To: Mallet, Pierre; Rivierre, Antoine; Dunne, Erin; Waters, Christa; Gaudet, Mario; Marentette, Julie
Cc: Fagan, Ashley; Beamish, Kayla; Lester, Brian
Subject: RE: Atlantic Mackerel

Thanks Pierre! I will prepare to put on the DFO website and will also prepare a notice to go to AMAC via email.

I have just copied below from the website with changes for 2017. However, we still need to sort out sharing arrangements on our call with AMAC in September. As such, **only the sections in yellow will be updated and provided**. The sections not in yellow will be removed.
Let me know if there are concerns before I proceed with finalizing this.
Thanks,
Jenness

Atlantic Mackerel – NAFO Subareas 3 and 4

Dates of season (subject to change)

June to November

Total Allowable Catches

TAC of 10,000 tonnes for 2017

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Sharing Arrangements (if applicable)

Fixed Gear and Small Seine harvesters 60%
Large Seine harvesters 40%

(Status Quo from 2015)

Management Measures

A Canadian total allowable catch of 10,000 tonnes for 2016.

There are flexibilities built into the current sharing arrangement (60% Fixed Gear and Small Seine harvesters / 40% Large Seine harvesters) if required during the 2016 fishing season.

Minimum fish size for commercial mackerel retention remains at 263mm (status quo from 2015).

Single or Multi-year Planning

This decision is for this year (2017) only.

Additional Information

The Department undertook a new stock assessment for Atlantic mackerel in the spring of 2017 and presented the results to the 2017 Atlantic Mackerel Advisory Committee . While the science assessment has shown some preliminary signs of rebuilding, the stock assessment indicates that the stock remains in the critical zone under DFO's Precautionary Approach framework. (Julie please review and can we provide a link to the report or SAR?)

In light of concerns expressed by industry at the 2014 Atlantic Mackerel Advisory Committee meeting, an Industry/Science working group was established to explore means for industry to assist science in compiling additional commercial fishing data and to look at ways to better collect information in bait fisheries.

In 2015, a new egg survey took place in Area 3K (northeast coast of NL) to determine if this is another significant spawning area for mackerel. That project will be continued in 2016.

Links to other information

- ATLANTIC MACKEREL - Effective 2007

From: Mallet, Pierre
Sent: July-27-17 10:30 AM
To: Cawthray, Jenness; Rivierre, Antoine; Dunne, Erin; Waters, Christa; Gaudet, Mario; Marentette, Julie
Cc: Fagan, Ashley; Beamish, Kayla
Subject: Re: Atlantic Mackerel

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s.19(1)

Hi Jenness
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Thanks

Sent from my BlackBerry 10 smartphone on the Rogers network.

From: Cawthray, Jenness
Sent: Thursday, July 27, 2017 11:21 AM
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Cc: Fagan, Ashley; Beamish, Kayla
Subject: FW: Atlantic Mackerel

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[redacted]can someone provide some intel on how the announcement works for this fishery? Is there a notice to fish harvesters, posting on the website??
Thanks!
Jenness

From: Burns, Adam
Sent: July-27-17 9:46 AM
To: Cawthray, Jenness
Cc: Gilchrist, Brett; Buie, Jennifer
Subject: FW: Atlantic Mackerel

FYI, please work with comms.

From: Trudeau, Miriam
Sent: July 26, 2017 4:59 PM
To: Burns, Adam <Adam.Burns@dfo-mpo.gc.ca>; Lapointe, Sylvie <Sylvie.Lapointe@dfo-mpo.gc.ca>; Hubley , Marian <Marian.Hubley@dfo-mpo.gc.ca>; McPherson, Arran <Arran.McPherson@dfo-mpo.gc.ca>
Cc: French, Christopher <Christopher.French@dfo-mpo.gc.ca>; White, Andrea <Andrea.White@dfo-mpo.gc.ca>; Quinn, Caroline <Caroline.Quinn@dfo-mpo.gc.ca>; Butcher, Ashley <Ashley.Butcher@dfo-mpo.gc.ca>; Hopkins, Lillian <Lillian.Hopkins@dfo-mpo.gc.ca>; Malko, Carol <Carol.Malko@dfo-mpo.gc.ca>; Patrick, Lindsey <Lindsey.Patrick@dfo-mpo.gc.ca>
Subject: Atlantic Mackerel

Hello:

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Thanks,

AB

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Miriam Trudeau
A/Director, Departmental Liaison
Directrice / intérimaire, Liaison ministériel

Fisheries and Oceans Canada | Pêches et Océans Canada
200 Kent Street | 200, rue Kent | 15N114
Ottawa, Canada K1A 0E6
(613) 947-4557| miriam.trudeau@dfo-mpo.gc.ca

No information has been removed or severed from this page

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Krohn, Martha

From: Krohn, Martha
Sent: July-27-17 12:14 PM
To: Marentette, Julie
Subject: RE: Atlantic Mackerel

Categories: Red Category

Yes all good with me.

From: Marentette, Julie
Sent: July-27-17 11:19 AM
To: Krohn, Martha
Subject: FW: Atlantic Mackerel

Hi Martha,

EFM is asking for feedback on this part:

The Department undertook a new stock assessment for Atlantic mackerel in the spring of 2017 and presented the results to the 2017 Atlantic Mackerel Advisory Committee . While the science assessment has shown some preliminary signs of rebuilding, the stock assessment indicates that the stock remains in the critical zone under DFO's Precautionary Approach framework. (Julie please review and can we provide a link to the report or SAR?)

I do not see issues with the paragraph, as the slightly expanding age structure and weak signs of a 2015 year class could be termed "preliminary signs of rebuilding."

SAR not yet available as discussed.

Best regards,

Julie Marentette, PhD

Science Advisor, Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Julie.Marentette@dfo-mpo.gc.ca /Tel: 613-943-2098

Conseillère scientifique, Sciences des populations halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Julie.Marentette@dfo-mpo.gc.ca /Tél: 613-943-2098

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Thanks,
Jenness

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s.19(1)

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Subject: FW: Atlantic Mackerel

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Thanks!
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From: Burns, Adam
Sent: July-27-17 9:46 AM

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To: Cawthray, Jenness
Cc: Gilchrist, Brett; Buie, Jennifer
Subject: FW: Atlantic Mackerel

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To: Burns, Adam <Adam.Burns@dfo-mpo.gc.ca>; Lapointe, Sylvie <Sylvie.Lapointe@dfo-mpo.gc.ca>; Hubley , Marian <Marian.Hubley@dfo-mpo.gc.ca>; McPherson, Arran <Arran.McPherson@dfo-mpo.gc.ca>
Cc: French, Christopher <Christopher.French@dfo-mpo.gc.ca>; White, Andrea <Andrea.White@dfo-mpo.gc.ca>; Quinn, Caroline <Caroline.Quinn@dfo-mpo.gc.ca>; Butcher, Ashley <Ashley.Butcher@dfo-mpo.gc.ca>; Hopkins, Lillian <Lillian.Hopkins@dfo-mpo.gc.ca>; Malko, Carol <Carol.Malko@dfo-mpo.gc.ca>; Patrick, Lindsey <Lindsey.Patrick@dfo-mpo.gc.ca>
Subject: Atlantic Mackerel

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Thanks,

AB

Miriam Trudeau
A/Director, Departmental Liaison
Directrice / intérimaire, Liaison ministériel

Fisheries and Oceans Canada | Pêches et Océans Canada
200 Kent Street | 200, rue Kent | 15N114
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(613) 947-4557 | miriam.trudeau@dfo-mpo.gc.ca

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Krohn, Martha

From: Krohn, Martha
Sent: July-27-17 12:06 PM
To: Northcott, Jennifer
Cc: Landry, Jean (Jean.Landry@dfo-mpo.gc.ca); Perrault, Isabelle; Fagan, Ashley; Marentette, Julie; Thompson, Susan
Subject: FW: For Review - ML_Mackerel_TAC.docx
Attachments: ML_Mackerel_TAC.docx; ML_Mackerel_TAC_JMeditsdocx.docx

Categories: Red Category

Hi Jennifer, Please find our input attached. our DGO is copied . If there is time it would be god to pass through DGO and ADMO, I see the docket has been signed so things are moving quickly.
Thanks,
Martha

From: Northcott, Jennifer
Sent: July-27-17 10:46 AM
To: Landry, Jean
Cc: Fagan, Ashley; Perrault, Isabelle; Krohn, Martha
Subject: For Review - ML_Mackerel_TAC.docx

Hi Jean:

These are going in a red docket to Adam Burns today. Please review and let me know if Patrice and Arran should approve them as well. I know you have had issues/corrections with TAC lines in the past. If you think these are fine, we will send it to them as FYI.

Thanks,
Jennifer

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DRAFT

MEDIA LINES

Atlantic Mackerel Total Allowable Catch 2017

Issue

On July XX (TBC), Fisheries and Oceans Canada (DFO) will announce the 2017 Total Allowable Catch (TAC) decision for the Atlantic Mackerel fishery. The TAC for the commercial catch in 2017 will be set at 10,000 tonnes, which is an increase from the 2016 TAC of 8,000 tonnes. Given increased reporting requirements it is anticipated that undeclared/unreported catches will be significantly reduced this year. The department can expect media calls on the decision, as industry's expectations were for a significant TAC increase, however their request was not supported by the science advice (which the Department has followed). We would expect that there will also be negative reaction from the Ecology Action Center and some Indigenous groups that suggested a reduced harvest level given the stock is assessed to be in the critical zone.

The Atlantic Mackerel Advisory Committee meeting took place on March 30 in Halifax, Nova Scotia. DFO chaired the meeting and upwards of 60 stakeholders, including Indigenous groups, harvesters, processors, environmental non-government organizations, and the four Atlantic Provinces and Quebec.

Media lines

- The 2017 Total Allowable Catch for the commercial fishery is set at 10,000 tonnes under a one-year management plan. This increase recognizes both the projected increases in the biomass over the coming year and the commitment to address unreported landings in the fishery.

- Fisheries management decisions for all stocks, including Atlantic mackerel include consideration of the best available science as well as input from Indigenous groups, harvesters, processors, environmental non-government organizations and the provinces.

- The Department undertook a new and detailed stock assessment for Atlantic mackerel this spring. This new assessment was discussed with members of the Atlantic Mackerel Advisory Committee on March 30 and input from stakeholders played an important role in the department's TAC decision.

- While the science assessment has shown some preliminary signs of rebuilding, the stock assessment indicates that the stock remains in the critical zone under DFO's Precautionary Approach framework.

- The established harvest level allows for a greater than 75% probability that the stock biomass will continue to increase at the established harvest level. This corresponds to a high probability of growth and reflects the Department's commitment to the

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Precautionary Approach. Specifically, with commercial TAC of 10,000 tonnes [redacted] taking into account improved catch monitoring in the fishery.

- Fisheries and Oceans Canada is committed to balancing economic opportunity and financial stability of the Atlantic mackerel fishery while promoting the sustainability of this resource.

- The Department has established a one-year TAC in line with the industry request to revisit the harvests level at the end of the 2017 fishery.

If pressed:

- Management decisions for this fishery consider long-term conservation and sustainability of the stock and take into account the best available science, the Department's management plan, and views expressed by stakeholders during consultations with industry.

- While industry supported and agreed with the general trends of stock rebuilding indicated in the stock assessment, their views are that the overall biomass is significantly larger than the science would indicate based on what they experienced in the 2016 fishery.

- The Department has initiated a DFO/industry rebuilding plan working group for this stock that will meet over the coming year to develop a plan for consideration by the Atlantic Mackerel Advisory Committee to support rebuiliding the stock into the Healthy Zone of the Precautionary Approach Framework

If pressed on judicial review:

- The Department will not comment on this matter, as it currently before the Court.

Spokesperson: Adam Burns

Program Contact: Brian Lester, Adam Burns

Communications Contact: Kayla Beamish

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DRAFT

MEDIA LINES

Atlantic Mackerel Total Allowable Catch 2017

Issue

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s.21(1)(b)

DRAFT

Precautionary Approach. Specifically, with a commercial TAC of 10,000 tonnes and estimated bait and recreational landings of 6,000 tonnes [redacted] taking into account improved catch monitoring in the fishery.

- Fisheries and Oceans Canada is committed to balancing economic opportunity and financial stability of the Atlantic mackerel fishery while promoting the sustainability of this resource.

- The Department has established a one-year TAC in line with the industry request to revisit the harvests level at the end of the 2017 fishery.

If pressed:

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Krohn, Martha

From: Marentette, Julie
Sent: July-27-17 11:56 AM
To: Krohn, Martha; Smith, Andrew (IML)
Subject: FW: Atlantic Mackerel

Importance: High

Categories: Red Category

FYI

Best regards,

Julie Marentette, PhD

Science Advisor, Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Julie.Marentette@dfo-mpo.gc.ca /Tel: 613-943-2098

Conseillère scientifique, Sciences des populations halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Julie.Marentette@dfo-mpo.gc.ca /Tél: 613-943-2098

Like DFO on Facebook/Aimez le MPO sur Facebook

From: Cawthray, Jenness
Sent: July-27-17 11:56 AM
To: Mallet, Pierre; Rivierre, Antoine; Dunne, Erin; Waters, Christa; Gaudet, Mario; Marentette, Julie
Cc: Fagan, Ashley; Beamish, Kayla
Subject: RE: Atlantic Mackerel
Importance: High

The memo has been signed by the Minister. I will let you know when the lines are ready for the announcement.

From: Mallet, Pierre
Sent: July-27-17 10:30 AM
To: Cawthray, Jenness; Rivierre, Antoine; Dunne, Erin; Waters, Christa; Gaudet, Mario; Marentette, Julie
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s.19(1)

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Cc: French, Christopher <Christopher.French@dfo-mpo.gc.ca>; White, Andrea <Andrea.White@dfo-mpo.gc.ca>; Quinn, Caroline <Caroline.Quinn@dfo-mpo.gc.ca>; Butcher, Ashley <Ashley.Butcher@dfo-mpo.gc.ca>; Hopkins, Lillian <Lillian.Hopkins@dfo-mpo.gc.ca>; Malko, Carol <Carol.Malko@dfo-mpo.gc.ca>; Patrick, Lindsey <Lindsey.Patrick@dfo-mpo.gc.ca>
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Ottawa, Canada K1A 0E6
(613) 947-4557| miriam.trudeau@dfo-mpo.gc.ca

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Pages 3519 to / à 3520
are duplicates of
sont des duplicatas des
pages 3541 to / à 3542

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Krohn, Martha

From: Thompson, Susan
Sent: July-27-17 10:38 AM
To: Krohn, Martha
Cc: Simon, Patrice (Ottawa); Nadeau, Simon; Lacroix, Marc-André; Marentette, Julie
Subject: FW: Atlantic Mackerel

Follow Up Flag: Follow up
Flag Status: Completed

Categories: Red Category

Martha,

See response from ADMO below.

Susan

From: White, Andrea
Sent: July-27-17 10:36 AM
To: Thompson, Susan
Cc: Simon, Patrice (Ottawa)
Subject: RE: Atlantic Mackerel

Hi – we don't have a lot of details on this in addition to what you already know, but what is proposed below looks good.
Thanks a lot,
Andi

From: Thompson, Susan
Sent: July-27-17 10:26 AM
To: White, Andrea
Cc: Simon, Patrice (Ottawa)
Subject: FW: Atlantic Mackerel

Hi Andi,

Please see the correspondence below re the Atlantic Mackerel request. Can ADMO confirm whether these headings / information would cover the request, to ensure the team is on the right track?

Thanks,
Susan

From: Krohn, Martha
Sent: July-27-17 9:54 AM
To: Simon, Patrice (Ottawa); Nadeau, Simon
Cc: Lacroix, Marc-André; Thompson, Susan; Marentette, Julie
Subject: RE: Atlantic Mackerel

Hi Patrice,

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We will use the technical deck for material, as well as some other briefing material on the mackerel assessment. We propose the following headings:

- Stock status
- Comparison to previous assessment (consistency/differences)
- Undeclared catches (how they were estimated)
- Industry views of resource
- Science concensus.

Would it be possible to check with ADMO is this is the sort of thing they are requesting?

Thanks!
Martha

From: Simon, Patrice (Ottawa)
Sent: July-26-17 6:07 PM
To: Nadeau, Simon
Cc: Krohn, Martha; Lacroix, Marc-André; Thompson, Susan
Subject: FW: Atlantic Mackerel

Simon,
Can we work on some lines for the science side on this. I expect that the official request will come soon. Patrice

From: McPherson, Arran
Sent: Wednesday, July 26, 2017 5:02 PM
To: Simon, Patrice (Ottawa) <Patrice.Simon@dfo-mpo.gc.ca>
Cc: White, Andrea <Andrea.White@dfo-mpo.gc.ca>
Subject: FW: Atlantic Mackerel

Hi Patrice, I think that the region had a deck ready for a tech briefing at one point so hopefully, those can be turned into some lines if not already done. Arran

From: Trudeau, Miriam
Sent: Wednesday, July 26, 2017 4:59 PM
To: Burns, Adam <Adam.Burns@dfo-mpo.gc.ca>; Lapointe, Sylvie <Sylvie.Lapointe@dfo-mpo.gc.ca>; Hubley , Marian <Marian.Hubley@dfo-mpo.gc.ca>; McPherson, Arran <Arran.McPherson@dfo-mpo.gc.ca>
Cc: French, Christopher <Christopher.French@dfo-mpo.gc.ca>; White, Andrea <Andrea.White@dfo-mpo.gc.ca>; Quinn, Caroline <Caroline.Quinn@dfo-mpo.gc.ca>; Butcher, Ashley <Ashley.Butcher@dfo-mpo.gc.ca>; Hopkins, Lillian <Lillian.Hopkins@dfo-mpo.gc.ca>; Malko, Carol <Carol.Malko@dfo-mpo.gc.ca>; Patrick, Lindsey <Lindsey.Patrick@dfo-mpo.gc.ca>
Subject: Atlantic Mackerel

Hello:

MINO has indicated that the Minister will be signing this docket. Could the Department be prepared with lines regarding management measures and science in case there are any concerns/questions?

I do not yet have the physical signed docket but MINO wanted to flag this information urgently. I have attached an electronic copy of the docket that was signed by the Associate and went into MINO.

Thanks,

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AB

Miriam Trudeau
A/Director, Departmental Liaison
Directrice / intérimaire, Liaison ministériel

Fisheries and Oceans Canada | Pêches et Océans Canada
200 Kent Street | 200, rue Kent | 15N114
Ottawa, Canada K1A 0E6
(613) 947-4557| miriam.trudeau@dfo-mpo.gc.ca

No information has been removed or severed from this page

Pages 3524 to / à 3525
are duplicates of
sont des duplicatas des
pages 3511 to / à 3512

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Krohn, Martha

From: Simon, Patrice (Ottawa)
Sent: July-27-17 2:19 PM
To: White, Andrea
Cc: Thompson, Susan; Krohn, Martha; Lacroix, Marc-André; Marentette, Julie
Subject: FW: For Review - ML_Mackerel_TAC.docx
Attachments: ML_Mackerel_TAC_JMeditsdocx.docx

Categories: Red Category

I approved these lines with few changes. Patrice

From: Krohn, Martha
Sent: Thursday, July 27, 2017 1:06 PM
To: Simon, Patrice (Ottawa) <Patrice.Simon@dfo-mpo.gc.ca>
Cc: Marentette, Julie <Julie.Marentette@dfo-mpo.gc.ca>; Thompson, Susan <Susan.Thompson@dfo-mpo.gc.ca>
Subject: RE: For Review - ML_Mackerel_TAC.docx

Hi Arran,
Please find attached media lines for mackerel produced by Comms for your approval.
The dockets are moving quickly as the memo has been signed (unconfirmed).
Thanks,
Patrice

From: Krohn, Martha
Sent: July-27-17 12:06 PM
To: Northcott, Jennifer
Cc: Landry, Jean (Jean.Landry@dfo-mpo.gc.ca); Perrault, Isabelle; Fagan, Ashley; Marentette, Julie; Thompson, Susan
Subject: FW: For Review - ML_Mackerel_TAC.docx

Hi Jennifer, Please find our input attached. our DGO is copied . If there is time it would be god to pass through DGO and ADMO, I see the docket has been signed so things are moving quickly.
Thanks,
Martha

From: Northcott, Jennifer
Sent: July-27-17 10:46 AM
To: Landry, Jean
Cc: Fagan, Ashley; Perrault, Isabelle; Krohn, Martha
Subject: For Review - ML_Mackerel_TAC.docx

Hi Jean:

These are going in a red docket to Adam Burns today. Please review and let me know if Patrice and Arran should approve them as well. I know you have had issues/corrections with TAC lines in the past. If you think these are fine, we will send it to them as FYI.

Thanks,
Jennifer

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DRAFT

MEDIA LINES

Atlantic Mackerel Total Allowable Catch 2017

Issue

On July XX (TBC), Fisheries and Oceans Canada (DFO) will announce the 2017 Total Allowable Catch (TAC) decision for the Atlantic Mackerel fishery. The TAC for the commercial catch in 2017 will be set at 10,000 tonnes, which is an increase from the 2016 TAC of 8,000 tonnes. Given increased reporting requirements it is anticipated that undeclared/unreported catches will be significantly reduced this year. The department can expect media calls on the decision, as industry's expectations were for a significant TAC increase, however their request was not supported by the science advice ~~(which the Department has followed)~~. We would expect that there will also be negative reaction from the Ecology Action Center and some Indigenous groups that suggested a reduced harvest level given the stock is assessed to be in the critical zone.

The Atlantic Mackerel Advisory Committee meeting took place on March 30 in Halifax, Nova Scotia. DFO chaired the meeting and participants included upwards of 60 stakeholders, including Indigenous groups, harvesters, processors, environmental non-government organizations, and the four Atlantic Provinces and Quebec.

Media lines

- The 2017 Total Allowable Catch for the commercial fishery is set at 10,000 tonnes under a one-year management plan. This increase recognizes both the projected increases in the biomass over the coming year and the commitment to address unreported landings in the fishery.

- Fisheries management decisions for all stocks, including Atlantic mackerel include consideration of the best available science as well as input from Indigenous groups, harvesters, processors, environmental non-government organizations and the provinces.

- The Department undertook a new and detailed stock assessment for Atlantic mackerel this spring. This new assessment was discussed with members of the Atlantic Mackerel Advisory Committee on March 30 and input from stakeholders played an important role in the department's TAC decision.

- While the science assessment has shown some ~~preliminary~~ signs of ~~slight improvement in the stock rebuilding~~, the stock assessment indicates that the stock remains in the critical zone under DFO's Precautionary Approach framework.

- The established harvest level allows for a greater than 75% probability that the stock biomass will continue to increase at the established harvest level. This corresponds to a high probability of growth ~~and reflects the Department's commitment to the~~

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s.21(1)(b)

DRAFT

~~Precautionary Approach~~. Specifically, with a commercial TAC of 10,000 tonnes and estimated bait and recreational landings of 6,000 tonnes [redacted] taking into account improved catch monitoring in the fishery.

- Fisheries and Oceans Canada is committed to balancing economic opportunity and financial stability of the Atlantic mackerel fishery while promoting the sustainability of this resource.

- The Department has established a one-year TAC in line with the industry request to revisit the harvests level at the end of the 2017 fishery.

If pressed:

- Management decisions for this fishery consider long-term conservation and sustainability of the stock and take into account the best available science, the Department's management plan, and views expressed by stakeholders during consultations with industry.

- ~~While i~~Industry ~~supported and agreed with the general trends of stock rebuilding indicated in the stock assessment, their~~ views are that the overall biomass is significantly larger than the science would indicate based on what they experienced in the 2016 fishery.

- The Department has initiated a DFO/industry rebuilding plan working group for this stock that will meet over the coming year to develop a plan for consideration by the Atlantic Mackerel Advisory Committee to support rebuilding the stock into the Healthy Zone of the Precautionary Approach Framework

If pressed on judicial review:

- The Department will not comment on this matter, as it currently before the Court.

Spokesperson: Adam Burns

Program Contact: Brian Lester, Adam Burns

Communications Contact: Kayla Beamish

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s.16(2)

Atl MKL - Prep Lines For Docket Date July 27/17

3 - Undecl. Catches
1 . Stock Status
2 - Diffs previous → this assessment
↳ - Comparability of trends

- Run Os+As through Andi (as readings)

4 - Industry views (genetic testg)

5 Science consensus

- schooling

[redacted] - Andrew Cell
July 31 - Aug 4

Page

003529

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Marentette, Julie

From: Krohn, Martha
Sent: July-27-17 9:29 AM
To: Marentette, Julie
Subject: RE: Atlantic Mackerel

No, it would be for the DM and Arran to use in response to MINO questions.
Feel free to stop by for a brainstorm!

From: Marentette, Julie
Sent: July-27-17 9:27 AM
To: Krohn, Martha
Subject: RE: Atlantic Mackerel

Hi Martha,

Can you please clarify – am I being asked for media lines? In that case, I go to Comms with a draft?

Thanks!

Best regards,

Julie Marentette, PhD

Science Advisor, Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Julie.Marentette@dfo-mpo.gc.ca /Tel: 613-943-2098

Conseillère scientifique, Sciences des populations halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Julie.Marentette@dfo-mpo.gc.ca /Tél: 613-943-2098

Like DFO on Facebook/Aimez le MPO sur Facebook

From: Krohn, Martha
Sent: July-27-17 7:07 AM
To: Simon, Patrice (Ottawa); Nadeau, Simon
Cc: Lacroix, Marc-André; Thompson, Susan; Marentette, Julie
Subject: Re: Atlantic Mackerel

Will do, we have the approved technical briefing deck.
Thanks for the heads up.
Martha

Sent from my BlackBerry 10 smartphone on the Rogers network.

From: Simon, Patrice (Ottawa)

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Sent: Wednesday, July 26, 2017 6:07 PM
To: Nadeau, Simon
Cc: Krohn, Martha; Lacroix, Marc-André; Thompson, Susan
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Can we work on some lines for the science side on this. I expect that the official request will come soon. Patrice

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Sent: Wednesday, July 26, 2017 5:02 PM
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Cc: White, Andrea <Andrea.White@dfo-mpo.gc.ca>
Subject: FW: Atlantic Mackerel

Hi Patrice, I think that the region had a deck ready for a tech briefing at one point so hopefully, those can be turned into some lines if not already done. Arran

From: Trudeau, Miriam
Sent: Wednesday, July 26, 2017 4:59 PM
To: Burns, Adam <Adam.Burns@dfo-mpo.gc.ca>; Lapointe, Sylvie <Sylvie.Lapointe@dfo-mpo.gc.ca>; Hubley , Marian <Marian.Hubley@dfo-mpo.gc.ca>; McPherson, Arran <Arran.McPherson@dfo-mpo.gc.ca>
Cc: French, Christopher <Christopher.French@dfo-mpo.gc.ca>; White, Andrea <Andrea.White@dfo-mpo.gc.ca>; Quinn, Caroline <Caroline.Quinn@dfo-mpo.gc.ca>; Butcher, Ashley <Ashley.Butcher@dfo-mpo.gc.ca>; Hopkins, Lillian <Lillian.Hopkins@dfo-mpo.gc.ca>; Malko, Carol <Carol.Malko@dfo-mpo.gc.ca>; Patrick, Lindsey <Lindsey.Patrick@dfo-mpo.gc.ca>
Subject: Atlantic Mackerel

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Thanks,

AB

Miriam Trudeau
A/Director, Departmental Liaison
Directrice / intérimaire, Liaison ministériel

Fisheries and Oceans Canada | Pêches et Océans Canada
200 Kent Street | 200, rue Kent | 15N114
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(613) 947-4557| miriam.trudeau@dfo-mpo.gc.ca

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s.19(1)

Marentette, Julie

From: Smith, Andrew (IML)
Sent: July-27-17 10:09 AM
To: Marentette, Julie
Subject: RE: Mino briefing on mackerel

Good morning Julie,

Well, this is the first I've heard of this technical briefing...

What I can do is go through our intranet networks and see if I can locate a newer version, and I can see if someone from our communications team is around who might know more details. No stress though. I don't think things have changed too much from May. There are a couple of comments from our observers' network that might be interesting to have. If you do not have access to these reports I will send them to you in a couple of minutes.

I'll get back to you about this this morning.

If you have any urgent questions, don't hesitate to call.

418 775 0665

Andrew

From: Marentette, Julie
Sent: Thursday, July 27, 2017 9:36 AM
To: Smith, Andrew (IML)
Cc: Castonguay, Martin
Subject: FW: Mino briefing on mackerel

Hello Andrew,

I'm wondering if you have a final copy of the technical briefing deck for Atlantic Mackerel?

I last saw a draft on May 16, but I think some changes might have been made since then. Thanks!!

Best regards,

Julie Marentette, PhD

Science Advisor, Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Julie.Marentette@dfo-mpo.gc.ca /Tel: 613-943-2098

Conseillère scientifique, Sciences des populations halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Julie.Marentette@dfo-mpo.gc.ca /Tél: 613-943-2098

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From: Landry, Jean
Sent: May-16-17 12:23 PM
To: White, Andrea; de Lafontaine, Yves
Cc: Krohn, Martha; Marentette, Julie; Burns, Adam; Lester, Brian; Northcott, Jennifer; Perron, Heloise
Subject: TR: Mino briefing on mackerel

Andy,

Attached is the draft deck for the potential technical media briefing on mackerel. Below Martha has provided few suggestions to Quebec Science's team. You may want to provide this deck to Arran when she is back. I have no major flag to raise about this deck. As discussed with Brian this morning, I take the opportunity of this email to share this **draft** deck with our EFM colleagues at HQ as I understand that they may want to prepare a deck covering the management aspects as part of this briefing (to be confirmed with EFM). I also CC our colleagues from COMM.

Next steps:

- Would be important to get some intel from yesterday's Min briefing on mackerel. Is this still the plan to conduct such briefing and if so, when and where? On this matter, Yves and I had a preliminary chat on the location and Halifax was mentioned as an option (one technical briefing in French and English in one location). Can you please check with ADMO about the next steps as Yves' team will need to know and plan accordingly. Adam: any thoughts on this?

Yves: Est-ce que tu as une version française en préparation? Sinon, on peut s'en occuper ici. Tu n'as qu'à m'expédier la version finale anglaise et on procédera. Nous t'expédierons la version française pour validation par ton équipe.

Jean

Jean Landry

Director , Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Jean.Landry@dfo-mpo.gc.ca / Tel: 613-993-0029

Directeur, Sciences halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Jean.Landry@dfo-mpo.gc.ca / Tél. : 613-993-0029

Government of Canada Gouvernement du Canada

Canada

De : Krohn, Martha
Envoyé : 15 mai 2017 16:30
À : Doniol-Valcroze, Thomas <Thomas.Doniol-Valcroze@dfo-mpo.gc.ca>; Castonguay, Martin <Martin.Castonguay@dfo-mpo.gc.ca>
Cc : Gilbert, Michel <Michel.Gilbert@dfo-mpo.gc.ca>; Landry, Jean <Jean.Landry@dfo-mpo.gc.ca>; Marentette,

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s.16(2)

Julie <Julie.Marentette@dfo-mpo.gc.ca>
Objet : RE: Mino briefing on mackerel

Hi Thomas and Martin,

The presentation looks great, looks like the right level for a media briefing. I am sure the will be very interested. A couple small points for your consideration from myself and Julie:

Slide 12: the official English translation of summary bullets used "facilitate" recovery ("maximize" recovery would be no fishing?)
Slide 3: typo, additional should have one n
Slide 5: Is it worth mentioning that some undeclared mackerel may also be caught by the American fishery? This is mentioned on slide 3 so maybe don't need to point it out twice.

Would you have the decision table handy at the media briefing in case there are questions about probabilities of growth for other TAC levels?

Jean may have something to add.

Merci!
Martha

From: de Lafontaine, Yves
Sent: May-12-17 11:11 AM
To: Landry, Jean; Krohn, Martha
Cc: Vincent, Patrick; Doniol-Valcroze, Thomas; Castonguay, Martin; Gilbert, Michel
Subject: TR: Mino briefing on mackerel

Bonjour Martha et Jean,

Voici la dernière version du deck de breffage pour le maquereau ajusté en fonction des scénarios de TAC à 10,000 t. En cas de questions, n'hésitez pas à appeler.
Martin et Thomas sont en route aujourd'hui de retour des USA et seront disponibles lundi matin pour toute discussion du dossier.

Yves de Lafontaine

Directeur, Institut Maurice Lamontagne
Directeur, Direction régionale des Sciences
Pêches et Océans Canada / Gouvernement du Canada
Yves.delafontaine@dfo-mpo.gc.ca Tél. : 418-775-0555 / tél. cell. : [redacted]

Director, Maurice Lamontagne Institute
Director, Sciences regional directorate
Fisheries and Oceans Canada / Government of Canada
Yves.delafontaine@dfo-mpo.gc.ca Tel : 418-775-0555 / Cel. : [redacted]

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De : Gilbert, Michel
Envoyé : 12 mai 2017 10:59
À : Doniol-Valcroze, Thomas <Thomas.Doniol-Valcroze@dfo-mpo.gc.ca>; Castonguay, Martin <Martin.Castonguay@dfo-mpo.gc.ca>
Cc : Racine, Sylvi <Sylvi.Racine@dfo-mpo.gc.ca>; de Lafontaine, Yves <Yves.deLafontaine@dfo-mpo.gc.ca>; Landry, Jean <Jean.Landry@dfo-mpo.gc.ca>
Objet : RE: Mino briefing on mackerel

Merci Thomas !

Nous avons quelques petites corrections mineurs (éditoriales) et Yves va la transférer à Jean Landry sous peu. Prenez note que mon message ce matin ne contenait pas la bonne présentation et j'ai rectifié le tir avec Yves. Toutes mes excuses !

Prenez note enfin qu'il y aura un appel avec le ministre sur cette question lundi matin à 9h30 et il est crucial que toi et/ou Martin soyez présents au bureau de Yves à ce moment pour répondre à des questions techniques s'il y a lieu.

Merci à l'avance et bon retour !

Michel G.

Michel Gilbert, M. Sc.
Directeur / Director
Direction des sciences pélagiques et écosystémiques / Pelagic and Ecosystem Science Branch
Direction régionale des Sciences / Regional Science Directorate
Pêches et Océans Canada / Fisheries and Oceans Canada
Institut Maurice-Lamontagne / Maurice Lamontagne Institute
850, Route de la Mer, C.P. 1000
Mont-Joli, Québec, Canada G5H 3Z4
Tél. / Tel. : (418) 775-0604
Téléc. / Fax : (418) 775-0718
Courriel / E-mail : michel.gilbert@dfo-mpo.gc.ca
http://www.qc.dfo-mpo.gc.ca/iml



De : Doniol-Valcroze, Thomas
Envoyé : 11 mai 2017 22:28
À : de Lafontaine, Yves; Gilbert, Michel; Castonguay, Martin
Cc : Racine, Sylvi
Objet : RE: Mino briefing on mackerel

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s.16(2)

Bonsoir Yves,

J'ai intégré tes commentaires et ceux de Michel dans cette version. J'espère que c'est mieux comme ça.

Il est peut-être temps de demander leur avis à l'équipe de Jean?

Thomas

De : de Lafontaine, Yves
Envoyé : 11 mai 2017 18:00
À : Doniol-Valcroze, Thomas; Gilbert, Michel; Castonguay, Martin
Cc : Racine, Sylvi
Objet : Re: Mino briefing on mackerel

Bonjour à tous,

Ou en sommes-nous avec ce breffage? Peut-on avoir une nouvelle version car nous devons finaliser pour demain au bureau de Ottawa. Svp me transmettre votre nouvelle version.

Envoyé de mon smartphone BlackBerry 10 sur le réseau Bell.

De: de Lafontaine, Yves
Envoyé: lundi 8 mai 2017 22:33
À: Doniol-Valcroze, Thomas; Gilbert, Michel; Castonguay, Martin
Cc: Racine, Sylvi
Objet: RE: Mino briefing on mackerel

Mes commentaires.

Yves de Lafontaine

Directeur, Institut Maurice Lamontagne
Directeur, Direction régionale des Sciences
Pêches et Océans Canada / Gouvernement du Canada
Yves.delafontaine@dfo-mpo.gc.ca Tél. : 418-775-0555 / tél. cell. :

Director, Maurice Lamontagne Institute

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Director, Sciences regional directorate
Fisheries and Oceans Canada / Government of Canada
Yves.delafontaine@dfo-mpo.gc.ca Tel : 418-775-0555 / Cel. : s.16(2)



De : Doniol-Valcroze, Thomas
Envoyé : 8 mai 2017 21:40
À : Gilbert, Michel <Michel.Gilbert@dfo-mpo.gc.ca>
Cc : Racine, Sylvi <Sylvi.Racine@dfo-mpo.gc.ca>; Castonguay, Martin <Martin.Castonguay@dfo-mpo.gc.ca>; de Lafontaine, Yves <Yves.deLafontaine@dfo-mpo.gc.ca>
Objet : RE: Mino briefing on mackerel

Michel,

Voici une première ébauche de breffage technique sur le maquereau, basée sur des diapos de Julie Marentette et sur notre présentation à AMAC. Il faudra les adapter en fonction de la décision du ministre.

Dites-nous ce que vous en pensez.

Thomas

De : Gilbert, Michel
Envoyé : 8 mai 2017 08:54
À : Castonguay, Martin
Cc : de Lafontaine, Yves; Racine, Sylvi; Doniol-Valcroze, Thomas
Objet : RE: Mino briefing on mackerel

Martin,

STP me contacter aujourd'hui à ce sujet. Étant donné votre voyage cette semaine à Woodshole, il faut se coordonner avec Sylvi le plus rapidement possible pour préparer le matériel requis.

Merci à l'avance !

Michel G.

Michel Gilbert, M. Sc.
Directeur / Director
Direction des sciences pélagiques et écosystémiques / Pelagic and Ecosystem Science Branch
Direction régionale des Sciences / Regional Science Directorate
Pêches et Océans Canada / Fisheries and Oceans Canada
Institut Maurice-Lamontagne / Maurice Lamontagne Institute
850, Route de la Mer, C.P. 1000
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Téléc. / Fax : (418) 775-0718
Courriel / E-mail : michel.gilbert@dfo-mpo.gc.ca
http://www.qc.dfo-mpo.gc.ca/iml

s.16(2)

Ma langue, une question de respect / My language, a matter of respect

De : de Lafontaine, Yves
Envoyé : 5 mai 2017 18:05
À : Gilbert, Michel; Racine, Sylvi; Castonguay, Martin
Objet : TR: Mino briefing on mackerel

Bonjour

Le dossier « maquereau » requiert un breffage technique pour les média afin de répondre aux questions éventuels suite à la sortie de l'avis ministériel du TAC. Jean Landry va envoyer un exemple de ce qui a été fait pour Terre-Neuve récemment (crevette) et qu'on pourra utiliser. L'équipe de Jean peut aussi nous donner un coup de pouce et doit absolument voir le produit final avant la sortie. Donc on travaille de concert avec eux pour préparer et finaliser le matériel.
Le ministre ferait l'annonce le 15 ou 16 mai prochain, ce qui laisse un peu de temps, mais selon la décision finale de la gestion des pêches, il faudra ajuster le discours et les Q&R.

SVP coordonner la production entre vous trois. Je vous transmets info dès réception.

Yves de Lafontaine

Directeur, Institut Maurice Lamontagne
Directeur, Direction régionale des Sciences
Pêches et Océans Canada / Gouvernement du Canada
Yves.delafontaine@dfo-mpo.gc.ca Tél. : 418-775-0555 / tél. cell. : [redacted]

Director, Maurice Lamontagne Institute
Director, Sciences regional directorate
Fisheries and Oceans Canada / Government of Canada
Yves.delafontaine@dfo-mpo.gc.ca Tel : 418-775-0555 / Cel. : [redacted]

J'ai 30 ans / I'm 30 years old
INSTITUT MAURICE-LAMONTAGNE
MAURICE LAMONTAGNE INSTITUTE

De : Landry, Jean
Envoyé : 4 mai 2017 17:52
À : Vézina, Alain <Alain.Vezina@dfo-mpo.gc.ca>; de Lafontaine, Yves <Yves.deLafontaine@dfo-mpo.gc.ca>
Cc : Chin, Melanie <Melanie.Chin@dfo-mpo.gc.ca>; White, Andrea <Andrea.White@dfo-

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mpo.gc.ca>; Northcott, Jennifer <Jennifer.Northcott@dfo-mpo.gc.ca>; Krohn, Martha <Martha.Krohn@dfo-mpo.gc.ca>
Objet : Fw: Mino briefing on mackerel

Alain: on va aussi devoir produire un court texte sur les progres realises avec l,avaluation sur le maquereau. J.anticipe un breffage avec le ministre sur le maqureau pour le 15 ou 16 mai (TBC).

Yves: un breffage technique pour les media a été demande étant donné la sensibilite liee a cet enjeu. Details a venir mais on devrait anticiper un breffage en français et un en anglais.

Jean

Sent from my BlackBerry 10 smartphone on the Rogers network.

From: Burns, Adam <Adam.Burns@dfo-mpo.gc.ca>
Sent: Thursday, May 4, 2017 5:11 PM
To: French, Christopher
Cc: Lapointe, Sylvie; Landry, Jean
Subject: Mino briefing on mackerel

Hi,

We had a mino briefing on mackerel science today where Jean Landry, Martha Krohn and I reviewed the improvements which have occurred in mackerel science over the last year as well as management improvements related to monitoring and reporting which are being implemented for the coming season.

It went well, the only outcome being a request from mino (Sheldon) that the dept consider a joint technical briefing on science and management when the decision comes out -- perhaps one in English and one in French.

AB
Sent from my BlackBerry 10 smartphone on the Rogers network.

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Marentette, Julie

From: Marentette, Julie
Sent: July-27-17 11:40 AM
To: Krohn, Martha
Subject: RE: For Review - ML_Mackerel_TAC.docx
Attachments: ML_Mackerel_TAC_JMeditsdocx.docx

Attached for your review are my limited suggestions.

Best regards,

Julie Marentette, PhD

Science Advisor, Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Julie.Marentette@dfo-mpo.gc.ca /Tel: 613-943-2098

Conseillère scientifique, Sciences des populations halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Julie.Marentette@dfo-mpo.gc.ca /Tél: 613-943-2098

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From: Krohn, Martha
Sent: July-27-17 11:17 AM
To: Marentette, Julie
Subject: FW: For Review - ML_Mackerel_TAC.docx

From: Northcott, Jennifer
Sent: July-27-17 10:46 AM
To: Landry, Jean
Cc: Fagan, Ashley; Perrault, Isabelle; Krohn, Martha
Subject: For Review - ML_Mackerel_TAC.docx

Hi Jean:

These are going in a red docket to Adam Burns today. Please review and let me know if Patrice and Arran should approve them as well. I know you have had issues/corrections with TAC lines in the past. If you think these are fine, we will send it to them as FYI.

Thanks,
Jennifer

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DRAFT

MEDIA LINES

Atlantic Mackerel Total Allowable Catch 2017

Issue

On July XX (TBC), Fisheries and Oceans Canada (DFO) will announce the 2017 Total Allowable Catch (TAC) decision for the Atlantic Mackerel fishery. The TAC for the commercial catch in 2017 will be set at 10,000 tonnes, which is an increase from the 2016 TAC of 8,000 tonnes. Given increased reporting requirements it is anticipated that undeclared/unreported catches will be significantly reduced this year. The department can expect media calls on the decision, as industry's expectations were for a significant TAC increase, however their request was not supported by the science advice (which the Department has followed). We would expect that there will also be negative reaction from the Ecology Action Center and some Indigenous groups that suggested a reduced harvest level given the stock is assessed to be in the critical zone.

The Atlantic Mackerel Advisory Committee meeting took place on March 30 in Halifax, Nova Scotia. DFO chaired the meeting and upwards of 60 stakeholders, including Indigenous groups, harvesters, processors, environmental non-government organizations, and the four Atlantic Provinces and Quebec.

Media lines

- The 2017 Total Allowable Catch for the commercial fishery is set at 10,000 tonnes under a one-year management plan. This increase recognizes both the projected increases in the biomass over the coming year and the commitment to address unreported landings in the fishery.

- Fisheries management decisions for all stocks, including Atlantic mackerel include consideration of the best available science as well as input from Indigenous groups, harvesters, processors, environmental non-government organizations and the provinces.

- The Department undertook a new and detailed stock assessment for Atlantic mackerel this spring. This new assessment was discussed with members of the Atlantic Mackerel Advisory Committee on March 30 and input from stakeholders played an important role in the department's TAC decision.

- While the science assessment has shown some preliminary signs of rebuilding, the stock assessment indicates that the stock remains in the critical zone under DFO's Precautionary Approach framework.

- The established harvest level allows for a greater than 75% probability that the stock biomass will continue to increase at the established harvest level. This corresponds to a high probability of growth and reflects the Department's commitment to the

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DRAFT

Precautionary Approach. Specifically, with a commercial TAC of 10,000 tonnes and estimated bait and recreational landings of 6,000 tonnes [redacted] taking into account improved catch monitoring in the fishery.

- Fisheries and Oceans Canada is committed to balancing economic opportunity and financial stability of the Atlantic mackerel fishery while promoting the sustainability of this resource.

- The Department has established a one-year TAC in line with the industry request to revisit the harvests level at the end of the 2017 fishery.

If pressed:

- Management decisions for this fishery consider long-term conservation and sustainability of the stock and take into account the best available science, the Department's management plan, and views expressed by stakeholders during consultations with industry.

- While industry supported and agreed with the general trends of stock rebuilding indicated in the stock assessment, their views are that the overall biomass is significantly larger than the science would indicate based on what they experienced in the 2016 fishery.

- The Department has initiated a DFO/industry rebuilding plan working group for this stock that will meet over the coming year to develop a plan for consideration by the Atlantic Mackerel Advisory Committee to support rebuilding the stock into the Healthy Zone of the Precautionary Approach Framework

If pressed on judicial review:

- The Department will not comment on this matter, as it currently before the Court.

Spokesperson: Adam Burns

Program Contact: Brian Lester, Adam Burns

Communications Contact: Kayla Beamish

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Marentette, Julie

From: Cawthray, Jenness
Sent: July-27-17 12:44 PM
To: Marentette, Julie
Cc: Krohn, Martha
Subject: RE: Atlantic Mackerel

Only the highlighted parts in yellow are updated and included for 2017. The rest not highlighted will not be included. Sorry if this was not clear.

From: Marentette, Julie
Sent: July-27-17 12:35 PM
To: Cawthray, Jenness
Cc: Krohn, Martha
Subject: RE: Atlantic Mackerel

Hi Jenness,

I just noticed that your last paragraph there is out of date:

In light of concerns expressed by industry at the 2014 Atlantic Mackerel Advisory Committee meeting, an Industry/Science working group was established to explore means for industry to assist science in compiling additional commercial fishing data and to look at ways to better collect information in bait fisheries.

In 2015, a new egg survey took place in Area 3K (northeast coast of NL) to determine if this is another significant spawning area for mackerel. That project will be continued in 2016.

Suggest updating to:

In light of concerns expressed by industry at the 2017 Atlantic Mackerel Advisory Committee meeting, an Industry/Science working group was established to explore means for industry to assist science in compiling additional commercial fishing data and to look at ways to better collect information in bait fisheries. (Jenness did you want to mention formation of rebuilding working group)?

In 2015 and 2016, new egg surveys took place in Area 3K (northeast coast of NL) to determine if this is another significant spawning area for mackerel. However, no new spawning areas have been discovered.

Best regards,

Julie Marentette, PhD

Science Advisor, Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Julie.Marentette@dfo-mpo.gc.ca /Tel: 613-943-2098

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Conseillère scientifique, Sciences des populations halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Julie.Marentette@dfo-mpo.gc.ca /Tél: 613-943-2098

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From: Cawthray, Jenness
Sent: July-27-17 12:08 PM
To: Marentette, Julie
Cc: Krohn, Martha
Subject: RE: Atlantic Mackerel

Thanks!

From: Marentette, Julie
Sent: July-27-17 12:01 PM
To: Cawthray, Jenness
Cc: Krohn, Martha
Subject: RE: Atlantic Mackerel

Hi Jenness,

We are working on your wording. The SAR is not yet available.

Best regards,

Julie Marentette, PhD

Science Advisor, Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Julie.Marentette@dfo-mpo.gc.ca /Tel: 613-943-2098

Conseillère scientifique, Sciences des populations halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Julie.Marentette@dfo-mpo.gc.ca /Tél: 613-943-2098

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From: Cawthray, Jenness
Sent: July-27-17 11:00 AM
To: Mallet, Pierre; Rivierre, Antoine; Dunne, Erin; Waters, Christa; Gaudet, Mario; Marentette, Julie
Cc: Fagan, Ashley; Beamish, Kayla; Lester, Brian
Subject: RE: Atlantic Mackerel

Thanks Pierre! I will prepare to put on the DFO website and will also prepare a notice to go to AMAC via email.

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I have just copied below from the website with changes for 2017. However, we still need to sort out sharing arrangements on our call with AMAC in September. As such, **only the sections in yellow will be updated and provided.** The sections not in yellow will be removed.
Let me know if there are concerns before I proceed with finalizing this.
Thanks,
Jenness

Atlantic Mackerel – NAFO Subareas 3 and 4

Dates of season (subject to change)

June to November

Total Allowable Catches

TAC of 10,000 tonnes for 2017

Sharing Arrangements (if applicable)

Fixed Gear and Small Seine harvesters 60%
Large Seine harvesters 40%

(Status Quo from 2015)

Management Measures

A Canadian total allowable catch of 10,000 tonnes for 2016.

There are flexibilities built into the current sharing arrangement (60% Fixed Gear and Small Seine harvesters / 40% Large Seine harvesters) if required during the 2016 fishing season.

Minimum fish size for commercial mackerel retention remains at 263mm (status quo from 2015).

Single or Multi-year Planning

This decision is for this year (2017) only.

Additional Information

The Department undertook a new stock assessment for Atlantic mackerel in the spring of 2017 and presented the results to the 2017 Atlantic Mackerel Advisory Committee . While the science assessment has shown some

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preliminary signs of rebuilding, the stock assessment indicates that the stock remains in the critical zone under DFO's Precautionary Approach framework. (Julie please review and can we provide a link to the report or SAR?)

In light of concerns expressed by industry at the 2014 Atlantic Mackerel Advisory Committee meeting, an Industry/Science working group was established to explore means for industry to assist science in compiling additional commercial fishing data and to look at ways to better collect information in bait fisheries.

In 2015, a new egg survey took place in Area 3K (northeast coast of NL) to determine if this is another significant spawning area for mackerel. That project will be continued in 2016.

Links to other information

- ATLANTIC MACKEREL - Effective 2007

From: Mallet, Pierre
Sent: July-27-17 10:30 AM
To: Cawthray, Jenness; Rivierre, Antoine; Dunne, Erin; Waters, Christa; Gaudet, Mario; Marentette, Julie
Cc: Fagan, Ashley; Beamish, Kayla
Subject: Re: Atlantic Mackerel

Hi Jenness
In the pas the decision and mgt measures were posted on the fisheries management decision site and a notice to harvester was issued. Use the AMAC member distribution list.
Thanks

Sent from my BlackBerry 10 smartphone on the Rogers network.

From: Cawthray, Jenness
Sent: Thursday, July 27, 2017 11:21 AM
To: Rivierre, Antoine; Dunne, Erin; Waters, Christa; Mallet, Pierre; Gaudet, Mario; Marentette, Julie
Cc: Fagan, Ashley; Beamish, Kayla
Subject: FW: Atlantic Mackerel

Hi Everyone,
A heads-up that the memo should be signed soon. For your information, I have also attached the DRAFT media lines.
[redacted] can someone provide some intel on how the announcement works for this fishery? Is there a notice to fish harvesters, posting on the website??
Thanks!
Jenness

From: Burns, Adam
Sent: July-27-17 9:46 AM
To: Cawthray, Jenness
Cc: Gilchrist, Brett; Buie, Jennifer
Subject: FW: Atlantic Mackerel

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FYI, please work with comms.

From: Trudeau, Miriam
Sent: July 26, 2017 4:59 PM
To: Burns, Adam <Adam.Burns@dfo-mpo.gc.ca>; Lapointe, Sylvie <Sylvie.Lapointe@dfo-mpo.gc.ca>; Hubley , Marian <Marian.Hubley@dfo-mpo.gc.ca>; McPherson, Arran <Arran.McPherson@dfo-mpo.gc.ca>
Cc: French, Christopher <Christopher.French@dfo-mpo.gc.ca>; White, Andrea <Andrea.White@dfo-mpo.gc.ca>; Quinn, Caroline <Caroline.Quinn@dfo-mpo.gc.ca>; Butcher, Ashley <Ashley.Butcher@dfo-mpo.gc.ca>; Hopkins, Lillian <Lillian.Hopkins@dfo-mpo.gc.ca>; Malko, Carol <Carol.Malko@dfo-mpo.gc.ca>; Patrick, Lindsey <Lindsey.Patrick@dfo-mpo.gc.ca>
Subject: Atlantic Mackerel

Hello:

MINO has indicated that the Minister will be signing this docket. Could the Department be prepared with lines regarding management measures and science in case there are any concerns/questions?

I do not yet have the physical signed docket but MINO wanted to flag this information urgently. I have attached an electronic copy of the docket that was signed by the Associate and went into MINO.

Thanks,

AB

Miriam Trudeau
A/Director, Departmental Liaison
Directrice / intérimaire, Liaison ministériel

Fisheries and Oceans Canada | Pêches et Océans Canada
200 Kent Street | 200, rue Kent | 15N114
Ottawa, Canada K1A 0E6
(613) 947-4557| miriam.trudeau@dfo-mpo.gc.ca

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Marentette, Julie

From: Northcott, Jennifer
Sent: July-27-17 1:19 PM
To: Krohn, Martha
Cc: Landry, Jean; Perrault, Isabelle; Fagan, Ashley; Marentette, Julie; Thompson, Susan
Subject: RE: For Review - ML_Mackerel_TAC.docx

Thanks, Martha. Your changes were accepted and are in the new version that Adam Burns has. I will flip it to Patrice now electronically, but he and Arran will be added to an updated approval docket.

Jennifer

From: Krohn, Martha
Sent: July-27-17 12:30 PM
To: Northcott, Jennifer
Cc: Landry, Jean; Perrault, Isabelle; Fagan, Ashley; Marentette, Julie; Thompson, Susan
Subject: RE: For Review - ML_Mackerel_TAC.docx

Resending...we noticed a second reference to "signs of rebuilding" and have reworded one other line.
Rebuilding would require some indication of good incoming year classes which have not been seen.

From: Krohn, Martha
Sent: July-27-17 12:06 PM
To: Northcott, Jennifer
Cc: Landry, Jean (Jean.Landry@dfo-mpo.gc.ca); Perrault, Isabelle; Fagan, Ashley; Marentette, Julie; Thompson, Susan
Subject: FW: For Review - ML_Mackerel_TAC.docx

Hi Jennifer, Please find our input attached. our DGO is copied . If there is time it would be god to pass through DGO and ADMO, I see the docket has been signed so things are moving quickly.
Thanks,
Martha

From: Northcott, Jennifer
Sent: July-27-17 10:46 AM
To: Landry, Jean
Cc: Fagan, Ashley; Perrault, Isabelle; Krohn, Martha
Subject: For Review - ML_Mackerel_TAC.docx

Hi Jean:

These are going in a red docket to Adam Burns today. Please review and let me know if Patrice and Arran should approve them as well. I know you have had issues/corrections with TAC lines in the past. If you think these are fine, we will send it to them as FYI.

Thanks,
Jennifer

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DRAFT

MEDIA LINES

Atlantic Mackerel Total Allowable Catch 2017

Issue

On July XX (TBC), Fisheries and Oceans Canada (DFO) will announce the 2017 Total Allowable Catch (TAC) decision for the Atlantic Mackerel fishery. The TAC for the commercial catch in 2017 will be set at 10,000 tonnes, which is an increase from the 2016 TAC of 8,000 tonnes. Given increased reporting requirements it is anticipated that undeclared/unreported catches will be significantly reduced this year. The department can expect media calls on the decision, as industry's expectations were for a significant TAC increase, however their request was not supported by the science advice (which the Department has followed). We would expect that there will also be negative reaction from the Ecology Action Center and some Indigenous groups that suggested a reduced harvest level given the stock is assessed to be in the critical zone.

The Atlantic Mackerel Advisory Committee meeting took place on March 30 in Halifax, Nova Scotia. DFO chaired the meeting and participants included upwards of 60 stakeholders, including Indigenous groups, harvesters, processors, environmental non-government organizations, and the four Atlantic Provinces and Quebec.

Media lines

- The 2017 Total Allowable Catch for the commercial fishery is set at 10,000 tonnes under a one-year management plan. This increase recognizes both the projected increases in the biomass over the coming year and the commitment to address unreported landings in the fishery.

- Fisheries management decisions for all stocks, including Atlantic mackerel include consideration of the best available science as well as input from Indigenous groups, harvesters, processors, environmental non-government organizations and the provinces.

- The Department undertook a new and detailed stock assessment for Atlantic mackerel this spring. This new assessment was discussed with members of the Atlantic Mackerel Advisory Committee on March 30 and input from stakeholders played an important role in the department's TAC decision.

- While the science assessment has shown some ~~preliminary~~ signs of slight improvement in the stock~~rebuilding~~, the stock assessment indicates that the stock remains in the critical zone under DFO's Precautionary Approach framework.

- The established harvest level allows for a greater than 75% probability that the stock biomass will continue to increase at the established harvest level. This corresponds to a high probability of growth and reflects the Department's commitment to the

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DRAFT

Precautionary Approach. Specifically, with a commercial TAC of 10,000 tonnes and estimated bait and recreational landings of 6,000 tonnes [redacted] taking into account improved catch monitoring in the fishery.

- Fisheries and Oceans Canada is committed to balancing economic opportunity and financial stability of the Atlantic mackerel fishery while promoting the sustainability of this resource.

- The Department has established a one-year TAC in line with the industry request to revisit the harvests level at the end of the 2017 fishery.

If pressed:

- Management decisions for this fishery consider long-term conservation and sustainability of the stock and take into account the best available science, the Department's management plan, and views expressed by stakeholders during consultations with industry.

- ~~While~~ Industry ~~supported and agreed with the general trends of stock rebuilding indicated in the stock assessment, their~~ views are that the overall biomass is significantly larger than the science would indicate based on what they experienced in the 2016 fishery.

- The Department has initiated a DFO/industry rebuilding plan working group for this stock that will meet over the coming year to develop a plan for consideration by the Atlantic Mackerel Advisory Committee to support rebuilding the stock into the Healthy Zone of the Precautionary Approach Framework

If pressed on judicial review:

- The Department will not comment on this matter, as it currently before the Court.

Spokesperson: Adam Burns

Program Contact: Brian Lester, Adam Burns

Communications Contact: Kayla Beamish

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s.21(1)(b)

Marentette, Julie

From: Marentette, Julie
Sent: July-27-17 2:58 PM
To: Smith, Andrew (IML)
Subject: RE: corrected ppt. with comments Mackerel Deck

Hi Andrew,

Fantastic, thanks! And agreed on your comments with supporting research. Another alternative could be "facilitate recovery" which is the wording that went into the official English SAR bullets from the last assessment.

Best regards,

Julie Marentette, PhD

Science Advisor, Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Julie.Marentette@dfo-mpo.gc.ca /Tel: 613-943-2098

Conseillère scientifique, Sciences des populations halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Julie.Marentette@dfo-mpo.gc.ca /Tél: 613-943-2098

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From: Smith, Andrew (IML)
Sent: July-27-17 2:23 PM
To: Marentette, Julie
Subject: corrected ppt. with comments Mackerel Deck

Hello Julie,

Here is a newer version of the deck. I corrected a couple of grammatical mistakes that I saw in the May version you sent. I also added 2 comments, both on the last slide. They are suggestions for word changes that I think are more accurate to the situation, using the language from the 2013 and 2009 reports on PA in fisheries

Cheers,

Andrew

From: Marentette, Julie
Sent: Thursday, July 27, 2017 1:08 PM
To: Smith, Andrew (IML)
Subject: RE: Mackerel egg survey

Updated version would be great, thanks! When you have time!

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Best regards,

Julie Marentette, PhD

Science Advisor, Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Julie.Marentette@dfo-mpo.gc.ca /Tel: 613-943-2098

Conseillère scientifique, Sciences des populations halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Julie.Marentette@dfo-mpo.gc.ca /Tél: 613-943-2098

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From: Smith, Andrew (IML)
Sent: July-27-17 1:00 PM
To: Marentette, Julie
Subject: RE: Mackerel egg survey

Could be I am just not on their lists yet.
If it is a question of reading from the powerpoint, I can do that. I'm still new to the dossier though so I won't be able to produce miracles. Regarding the powerpoint that you sent in the original message. Do you want me to clean the English up a bit?

Andrew

From: Marentette, Julie
Sent: Thursday, July 27, 2017 12:14 PM
To: Smith, Andrew (IML)
Subject: RE: Mackerel egg survey

Hi Andrew,

I was discussing the media briefing here with my manager and we aren't sure if the Department is planning on going ahead with the media briefing, especially if you haven't been informed of this through your region.

Things are moving very quickly here and I will let you know if I hear anything else.

Thanks again,

Julie Marentette, PhD

Science Advisor, Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Julie.Marentette@dfo-mpo.gc.ca /Tel: 613-943-2098

Conseillère scientifique, Sciences des populations halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Julie.Marentette@dfo-mpo.gc.ca /Tél: 613-943-2098

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From: Smith, Andrew (IML)
Sent: July-27-17 11:49 AM
To: Marentette, Julie
Subject: RE: Mackerel egg survey

Hi again,

The 2017 Mackerel egg survey data is being analyzed as we speak. However, this is a long and tedious analysis and involves the counting of thousands of eggs, larvae etc of multiple species under a confocal microscope 9-5 every day for a couple of months. As of now, my technicians are halfway through the 65 sample stations. They expect to be done by the end of August / early September. Following this, the data has to be entered into a spreadsheet (Wet lab = no computer). I imagine this step will take a couple of weeks. From there the actual data analysis can take place. From the collecting of the samples on the boat to data analysis there are no delays. It is done as quickly as possible (I'm sure you know this but I just want to have it in writing for communication purposes).

Regarding the media briefing deck, I talked with one of communications counsellors (Karina Laberge), and I forwarded the last email exchange that we had to her. She seemed to be unaware of the potential media presentation [redacted]

Cheers,

Andrew

From: Marentette, Julie
Sent: Thursday, July 27, 2017 10:52 AM
To: Smith, Andrew (IML)
Subject: Mackerel egg survey

Hi Andrew,

I may have a few quick questions for you over the next few days - Has the 2017 Mackerel egg survey data been analyzed yet? I think it was collected in June?

Reason I am asking: The 2017 Mackerel egg survey data were expected to be the first solid sign as to whether or not there was a strong 2015 year class of Mackerel, which is what industry observed and discussed at the most recent assessment.

Not an emergency if you don't know or if the data aren't yet analyzed, I may just be asked for an update on this here (if any).

Best regards,

Julie Marentette, PhD

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Science Advisor, Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Julie.Marentette@dfo-mpo.gc.ca /Tel: 613-943-2098

Conseillère scientifique, Sciences des populations halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Julie.Marentette@dfo-mpo.gc.ca /Tél: 613-943-2098

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No information has been removed or severed from this page

Pages 3555 to / à 3566
are duplicates of
sont des duplicatas des
pages 2728 to / à 2739

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Slide 12

D1 DFO-MPO, 27/07/2017

D2 Andrew -
"to maximize recovery" is misleading. To do that the fishery would have to be closed. This won't happen. I suggest rephrasing it by saying "promoting stock growth". Which is consistent with the language used in the 2009 PA policy (Table 1).

While the comment "should be low enough to promote stock growth" is in accordance with the PA management actions General Approach (Table 1), It is not consistent with keeping all sources of removals to a minimum (Harvest Rate Strategy -Table 1).
http://www.dfo-mpo.gc.ca/reports-rapports/regs/sff-cpd/precaution-eng.htm

I am basing this criticism on the following GC document:

Canada's Guide for growing stocks out of the critical zone (2013):
http://www.dfo-mpo.gc.ca/reports-rapports/regs/sff-cpd/precautionary-precaution-eng.htm

Section 3.1
○ promote stock growth out of the Critical Zone (i.e. grow the stock beyond the LRP) by ensuring removals from all fishing sources are kept to the lowest possible level until the stock has cleared this zone. There should be no tolerance for preventable decline. This objective remains the same whether the stock is declining, stable or increasing.

AND

Section 8.1
• The PA Framework requires that removals from all fishing sources are kept to the lowest possible level until the stock has cleared the Critical Zone, with no tolerance for preventable decline. When a stock is in the Critical Zone, long-term sustainable fishery benefits can only be realized by emphasizing considerable restraint through the stock rebuilding phase.
• Experience has indicated that the most successful rebuilding programs are characterized by immediate and substantial reductions in total mortality from fishing (Hammer et. al., 2010; OECD, 2010; UNCOVER, 2010), including those from directed fishing, bycatch and discards. Stocks with very low abundance generally have poor productivity, and therefore, rebuilding is even more challenging. Protection of a sizeable spawning stock biomass (SSB), and thereby the generation of new recruits, is essential. Hence, it is vital to ensure that rapid reduction in fishing mortality prevents the SSB from falling below sub-optimal threshold levels where there may be uncertainty about both the nature of the stock-recruitment relationship (due to lack of experience and appropriate data) and the potential inability of a heavily depleted stock to generate sufficient recruits for effective rebuilding (UNCOVER, 2010).
• Gradual, long-term reductions may delay or prevent the onset of rebuilding... As a result of small reductions, there may be a sequence of years in which rebuilding responses are not evident.

DFO-MPO, 27/07/2017

D3 Andrew-

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Marentette, Julie

From: Krohn, Martha
Sent: July-27-17 3:31 PM
To: Marentette, Julie; Cawthray, Jenness
Subject: RE: Materials for Mackerel TAC

Hi Jenness, the DG and ADM comments may go directly to Jennifer Northcott in Comms. If so we will forward to you,
Thanks,
Martha

From: Marentette, Julie
Sent: July-27-17 3:15 PM
To: Cawthray, Jenness
Cc: Krohn, Martha
Subject: RE: Materials for Mackerel TAC

Hi Jenness,

Our DG/ADMO may have additional comments on the media lines, forthcoming.

Thanks,

Julie Marentette, PhD

Science Advisor, Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Julie.Marentette@dfo-mpo.gc.ca /Tel: 613-943-2098

Conseillère scientifique, Sciences des populations halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Julie.Marentette@dfo-mpo.gc.ca /Tél: 613-943-2098

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From: Cawthray, Jenness
Sent: July-27-17 3:02 PM
To: Dunne, Erin; Waters, Christa; Mallet, Pierre; Gaudet, Mario; Rivierre, Antoine
Cc: Marentette, Julie; Lester, Brian
Subject: Materials for Mackerel TAC
Importance: High

Hi Everyone,
Here are all the draft materials and draft comm lines for the TAC announcement. Please note that TAC will be announced once we have finalized the documents. It would be appreciated if you could review the website material and notice as soon as possible and let me know if you have any concerns.

- Website
- Notice to AMAC

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- Comm lines
- Mackerel landings

Do you have any concerns that I removed the sharing arrangements section from the TAC or do you think this will raise alarm bells from industry.
Thanks!

Jenness Cawthray
Senior Fisheries and Aquaculture Management Officer |
Agent principal, Gestion des pêches et de l'aquaculture
Fisheries and Oceans | Pêches et océans
200 rue Kent Street - 13S013 Ottawa, ON, K1A 0E6
Jenness.Cawthray@dfo-mpo.gc.ca
Telephone | Téléphone (613) 998-1524
Facsimile | Télécopieur (613) 990-7051
Government of Canada | Gouvernement du Canada

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Fagan, Ashley

From: Fagan, Ashley
Sent: July-27-17 10:13 AM
To: Cawthray, Jenness
Subject: RE: Atlantic Mackerel
Attachments: ML_Mackerel_TAC.docx

There are the ones I have....

From: Cawthray, Jenness
Sent: July-27-17 10:02 AM
To: Beamish, Kayla; Fagan, Ashley
Subject: FW: Atlantic Mackerel

Hi Ashley,
I have the red communications docket in my office that I previously worked on with Kayla. The memo was put on hold temporarily. I am currently reviewing the comm lines and will send them to DGO.
Thanks!
Jenness

From: Burns, Adam
Sent: July-27-17 9:46 AM
To: Cawthray, Jenness
Cc: Gilchrist, Brett; Buie, Jennifer
Subject: FW: Atlantic Mackerel

FYI, please work with comms.

From: Trudeau, Miriam
Sent: July 26, 2017 4:59 PM
To: Burns, Adam <Adam.Burns@dfo-mpo.gc.ca>; Lapointe, Sylvie <Sylvie.Lapointe@dfo-mpo.gc.ca>; Hubley , Marian <Marian.Hubley@dfo-mpo.gc.ca>; McPherson, Arran <Arran.McPherson@dfo-mpo.gc.ca>
Cc: French, Christopher <Christopher.French@dfo-mpo.gc.ca>; White, Andrea <Andrea.White@dfo-mpo.gc.ca>; Quinn, Caroline <Caroline.Quinn@dfo-mpo.gc.ca>; Butcher, Ashley <Ashley.Butcher@dfo-mpo.gc.ca>; Hopkins, Lillian <Lillian.Hopkins@dfo-mpo.gc.ca>; Malko, Carol <Carol.Malko@dfo-mpo.gc.ca>; Patrick, Lindsey <Lindsey.Patrick@dfo-mpo.gc.ca>
Subject: Atlantic Mackerel

Hello:

MINO has indicated that the Minister will be signing this docket. Could the Department be prepared with lines regarding management measures and science in case there are any concerns/questions?

I do not yet have the physical signed docket but MINO wanted to flag this information urgently. I have attached an electronic copy of the docket that was signed by the Associate and went into MINO.

Thanks,

AB

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Miriam Trudeau
A/Director, Departmental Liaison
Directrice / intérimaire, Liaison ministériel

Fisheries and Oceans Canada | Pêches et Océans Canada
200 Kent Street | 200, rue Kent | 15N114
Ottawa, Canada K1A 0E6
(613) 947-4557| miriam.trudeau@dfo-mpo.gc.ca

No information has been removed or severed from this page

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MEDIA LINES

Atlantic Mackerel Total Allowable Catch 2017

Issue

On May XX (TBC), Fisheries and Oceans Canada (DFO) will announce the 2017 Total Allowable Catch (TAC) decision for the Atlantic Mackerel fishery. The TAC for the commercial catch in 2017 will be set at 10,000 tonnes, which is an increase from the 2016 TAC of 8,000 tonnes. Given increased reporting requirements it is anticipated that undeclared/unreported catches will be significantly reduced this year. The department can expect media calls on the decision, as industry's expectations were for a significant TAC increase, however their request was not supported by the science advice (which the Department has followed). We would expect that there will also be negative reaction from the Ecology Action Center and some Indigenous groups that suggested a reduced harvest level given the stock is assessed to be in the critical zone.

The Atlantic Mackerel Advisory Committee meeting took place on March 30 in Halifax, Nova Scotia. DFO chaired the meeting and upwards of 60 stakeholders, including Indigenous groups, harvesters, processors, environmental non-government organizations, and the four Atlantic Provinces and Quebec.

Media lines

- The 2017 Total Allowable Catch for the commercial fishery is set at 10,000 tonnes under a one-year management plan. This increase recognizes both the projected increases in the biomass over the coming year and the commitment to address unreported landings in the fishery.

- Fisheries management decisions for all stocks, including Atlantic mackerel include consideration of the best available science as well as input from Indigenous groups, harvesters, processors, environmental non-government organizations and the provinces.

- The Department undertook a new and detailed stock assessment for Atlantic mackerel this spring. This new assessment was discussed with members of the Atlantic Mackerel Advisory Committee on March 30 and input from stakeholders played an important role in the department's TAC decision.

- While the science assessment has shown some preliminary signs of rebuilding, the stock assessment indicates that the stock remains in the critical zone under DFO's Precautionary Approach framework.

- The established harvest level allows for a greater than 75% probability that the stock biomass will continue to increase at the established harvest level. This corresponds to a high probability of growth and reflects the Department's commitment to the

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Precautionary Approach. Specifically, with commercial TAC of 10,000t [redacted] taking into account improved catch monitoring in the fishery.

- Fisheries and Oceans Canada is committed to balancing economic opportunity and financial stability of the Atlantic mackerel fishery while promoting the sustainability of this resource.

- The Department has established a one-year TAC in line with the industry request to revisit the harvests level at the end of the 2017 fishery.

If pressed:

- Management decisions for this fishery consider long-term conservation and sustainability of the stock and take into account the best available science, the Department's management plan, and views expressed by stakeholders during consultations with industry.

- While industry supported and agreed with the general trends of stock rebuilding indicated in the stock assessment, their views are that the overall biomass is significantly larger than the science would indicate based on what they experienced in the 2016 fishery.

- The Department has initiated a DFO/industry rebuilding plan working group for this stock that will meet over the coming year to develop a plan for consideration by the Atlantic Mackerel Advisory Committee to support rebuiliding the stock into the Healthy Zone of the Precautionary Approach Framework

If pressed on judicial review:

- The Department will not comment on this matter, as it currently before the Court.

Spokesperson: Adam Burns

Program Contact: Brian Lester, Adam Burns

Communications Contact: Kayla Beamish

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s.19(1)

Fagan, Ashley

From: Fagan, Ashley
Sent: July-27-17 12:43 PM
To: Jackson, Ashley
Subject: FW: MLs Mackerel [- new version
Attachments: ML_Mackerel_TAC.docx

FYI

From: Fagan, Ashley
Sent: July-27-17 12:33 PM
To: Cawthray, Jenness
Cc: Northcott, Jennifer; ComApproval / Approbation (DFO/MPO)
Subject: MLs Mackerel [- new version

Jenness, Science made some revisions on the MLs. Could you switch this version into Adam's docket?

[redacted] when he has signed off on the docket please let us know and the ComApprovals team can come pick it up and continue with further approvals.

Thanks,

Ashley Fagan
Senior Communications Advisor | Conseillère principale en communications
Fisheries and Oceans Canada | Pêches et Océans Canada
ashley.fagan@dfo-mpo.gc.ca
613-990-9415

Pages 3575 to / à 3576
are duplicates of
sont des duplicatas des
pages 3484 to / à 3485

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Quirion, Stephanie

From: Fagan, Ashley
Sent: 2017–July-27 12:19 PM
To: Woodford, Jan; Nielsen, Ingrid; Quirion, Stephanie; Hubley , Marian
Cc: Jackson, Ashley; Craig, Mark; LeBreton, Ginette; Stanek, Frank
Subject: Atlantic mackerel TAC decision signed
Attachments: ML_Mackerel_TAC.docx

Importance: High

Hi all, just received word that the TAC decision on Mackerel has now been signed by the Minister.

NHQ will be issuing an advisory to harvesters and we'll post the decision to the website.

Heads up to web folks. Posting will likely be tomorrow.

Attached media lines are in approvals—urgently seeking DG level/Adam Burn's approval.

Jan--Heads up for NFLD region—I have heard that the TAC is significantly lower is significantly lower than what was requested/hoped for: 10,000 t allocated but 36,000 t was asked for). Just wanted to make sure you were aware as this might generate media interest in your region.

Ashley

Ashley Fagan
Senior Communications Advisor | Conseillère principale en communications
Fisheries and Oceans Canada | Pêches et Océans Canada
ashley.fagan@dfo-mpo.gc.ca
613-990-9415

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DRAFT

MEDIA LINES

Atlantic Mackerel Total Allowable Catch 2017

Issue

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Spokesperson: Adam Burns

Program Contact: Brian Lester, Adam Burns

Communications Contact: Kayla Beamish

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Taché, Hélène

From: ComApproval / Approbation (DFO/MPO)
Sent: July-27-17 10:54 AM
To: Fagan, Ashley
Subject: RE: 233/17 Atlantic Mackerel

Thanks Ashley! We've updated CATS.

Elise

From: Fagan, Ashley
Sent: July-27-17 10:45 AM
To: ComApproval / Approbation (DFO/MPO)
Subject: FW: Atlantic Mackerel

FYI on this file. Red docket was put on hold. It is going back to Adam Burn's office and we hope to get signature ASAP

From: Hubley , Marian
Sent: July-27-17 10:43 AM
To: Fagan, Ashley; Perrault, Isabelle; Nielsen, Ingrid
Cc: Northcott, Jennifer
Subject: RE: Atlantic Mackerel

Super.

From: Fagan, Ashley
Sent: Thursday, July 27, 2017 10:17 AM
To: Perrault, Isabelle <Isabelle.Perrault@dfo-mpo.gc.ca>; Hubley , Marian <Marian.Hubley@dfo-mpo.gc.ca>; Nielsen, Ingrid <Ingrid.Nielsen@dfo-mpo.gc.ca>
Cc: Northcott, Jennifer <Jennifer.Northcott@dfo-mpo.gc.ca>
Subject: RE: Atlantic Mackerel

We have media lines prepared--approval was put on hold until further info on the decision. We'll get them back into approvals ASAP. Red docket will be going to Adam Burn's office.

From: Perrault, Isabelle
Sent: July-27-17 7:48 AM
To: Hubley , Marian; Nielsen, Ingrid; Fagan, Ashley
Cc: Northcott, Jennifer
Subject: Re: Atlantic Mackerel

Lines would likely be an EFM lead with some messaging from Science - Jen from my team will connect with EFM on this today - cheers

Sent from my BlackBerry 10 smartphone on the Rogers network.

From: Hubley , Marian
Sent: Wednesday, July 26, 2017 5:08 PM
To: Nielsen, Ingrid; Fagan, Ashley; Perrault, Isabelle
Subject: FW: Atlantic Mackerel

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You guys aware of this one? Is someone working on lines or would that be a regional lead.

From: Trudeau, Miriam
Sent: Wednesday, July 26, 2017 4:59 PM
To: Burns, Adam <Adam.Burns@dfo-mpo.gc.ca>; Lapointe, Sylvie <Sylvie.Lapointe@dfo-mpo.gc.ca>; Hubley , Marian <Marian.Hubley@dfo-mpo.gc.ca>; McPherson, Arran <Arran.McPherson@dfo-mpo.gc.ca>
Cc: French, Christopher <Christopher.French@dfo-mpo.gc.ca>; White, Andrea <Andrea.White@dfo-mpo.gc.ca>; Quinn, Caroline <Caroline.Quinn@dfo-mpo.gc.ca>; Butcher, Ashley <Ashley.Butcher@dfo-mpo.gc.ca>; Hopkins, Lillian <Lillian.Hopkins@dfo-mpo.gc.ca>; Malko, Carol <Carol.Malko@dfo-mpo.gc.ca>; Patrick, Lindsey <Lindsey.Patrick@dfo-mpo.gc.ca>
Subject: Atlantic Mackerel

Hello:

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Thanks,

AB

Miriam Trudeau
A/Director, Departmental Liaison
Directrice / intérimaire, Liaison ministériel

Fisheries and Oceans Canada | Pêches et Océans Canada
200 Kent Street | 200, rue Kent | 15N114
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(613) 947-4557| miriam.trudeau@dfo-mpo.gc.ca

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Cormier, Mélanie

De: Cawthray, Jenness
Envoyé: 27 juillet 2017 15:02
À: Dunne, Erin; Waters, Christa; Mallet, Pierre; Gaudet, Mario; Rivierre, Antoine
Cc: Marentette, Julie; Lester, Brian
Objet: Materials for Mackerel TAC
Pièces jointes: ML_Mackerel_TAC.docx; MECTS-#3806390-v1-2017 _Mackerel_Landings__Evergreen.XLSX; MECTS-#3810595-v1-AMAC_Notice_TAC_ 2017.DOCX; DFO Website_TACannoucement.docx

Importance: Haute

Hi Everyone,
Here are all the draft materials and draft comm lines for the TAC announcement. Please note that TAC will be announced once we have finalized the documents. It would be appreciated if you could review the website material and notice as soon as possible and let me know if you have any concerns.

- Website
- Notice to AMAC
- Comm lines
- Mackerel landings

Do you have any concerns that I removed the sharing arrangements section from the TAC or do you think this will raise alarm bells from industry.
Thanks!

Jenness Cawthray
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Telephone | Téléphone (613) 998-1524
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page 3491

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Syed, Hamza

Subject: SAR-AS2017/034 QC maquereau bleu (Doniol-Valcroze)
Due Date: July-27-17

Status: Completed
Percent Complete: 100%
Date Completed: August-03-17

Total Work: 0 hours
Actual Work: 0 hours

Owner: CSAS / SCCS (DFO/MPO)




MECTS-3803283....MECTS-3803290....

Français : http://wwwdev.ncr.dfo-mpo.ca/csas-sccs/Publications/SAR-AS/2017/2017_034-fra.html
Anglais : http://wwwdev.ncr.dfo-mpo.ca/csas-sccs/Publications/SAR-AS/2017/2017_034-eng.html

Le 3 août 2017 : publié –ir




Publié: SAR-AS2017/03...
RE: Demande de numéro - avis s...

August 2, 2017: feedback from author. Figures 8 and 9 compressed and document reconverted - ir



RE: Demande de numéro - avis s...

July 27, 2017: proceed with current figures, sent for pdf-proof approval (**due August 3**) -ir



RE: Demande de numéro - avis s...

July 25, 2017: format reviewed, figures to be brought to Coordinator's attention -ir



RE: Demande de numéro - avis s...

French:

- Under Sources de Renseignements, changed:
  Le présent avis scientifique découle de la réunion régionale du 8 au 9 mars 2017 sur l'évaluation du stock de maquereau bleu des sous-régions 3 et 4.
  To :

Document Released Under the Access to Information Act / Document divulgué en vertu de la Loi sur l'accès à l'information

Le présent avis scientifique découle de la réunion régionale du 8 au 9 mars 2017 sur l'Évaluation du maquereau bleu des sous-régions 3-4.

English :

- Under Sources of Information, changed :
  This Science Advisory Report is from the March 8 and 9, 2017, regional meeting on the assessment of the Atlantic mackerel stock in subareas 3 and 4.
  to:
  This Science Advisory Report is from the March 8 and 9, 2017, regional meeting on the Assessment of Atlantic mackerel in subareas 3 and 4.

July 21, 2017: Document review –hs
English

- Citation correction: "DFO Can. Sci. Advis. Sec., Sci. Advis." To "Advis. Sec. Sci. Advis. Rep. '
- Figure 1 is different in both versions, English and French.

French

- Figure 1 is different in both versions, English and French.

July 11, 2017: submitted, number assigned, format to be reviewed – ir



Demande de numéro - avis sci...

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Science Advisory Report 2017/034

Assessment of the Atlantic Mackerel Stock for the Northwest Atlantic (Subareas 3 and 4) in 2016

Summary

- Reported commercial landings in NAFO (North Atlantic Fisheries Organization) subareas 3 and 4 have decreased significantly in recent years. Between 2005 and 2013, they decreased from 54,621 t to 8,663 t before reaching 6,680 t in 2014 and 4,143 t in 2015. In 2016, the TAC of 8,000 t was reached.
- US landings (commercial and recreational) in NAFO subareas 5 and 6 also decreased significantly in recent years. Between 2005 and 2012, they decreased from 43,220 t to about 6,000 t and have remained at that level from 2013 to 2015.
- The issue of unrecorded catches has been investigated using a review of available data on bait needs and recreational fisheries, as well as an online survey aimed at mackerel fishermen. Both approaches show that total catches can reach 150% to 200% of declared catches, and that this ratio varies among regions and years.
- Following its increase in recent years, the length at 50% maturity has remained slightly above the minimum authorized length of 263 mm.
- The age structure in the fishery has contracted considerably since 2000 following the disappearance of fish older than 7 years. However, a slight improvement has been observed since 2013, with an increase of mackerel of ages 5 and 6.
- The abundance index from the egg survey in the southern Gulf reached its lowest level in 2012 (14,568 t), then slowly increased to 52,667 t in 2016. This value remains far below the abundance levels of over 750,000 t observed in the 1980s.
- A "censored" statistical catch-at-age model, calibrated with the abundance index from the egg survey and taking into account the uncertainty due to unrecorded catches, confirms that mackerel spawning biomass has declined due to high exploitation rates and reached its historical minimum in 2012 (20,000 t). According to the model, the 2016 spawning biomass was 40,000 t.

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- The Limit Reference Point (LRP) for this stock is a proxy of 40%B_{msy} based on $F_{40\%}$ derived from a yield-per-recruit analysis. According to the censored model, stock abundance in 2016 was about 40% of the 103,000 t LRP.
- Model projections were used to quantify the risks associated with different catch scenarios. Considering that the stock is in the critical zone, total catches (declared + unreported) should be low enough to facilitate recovery.
- It is particularly important to fill gaps in the biological sampling of the commercial catch in some areas, to accelerate compiling of landing statistics and to improve data collection on unreported catches.

This Science Advisory Report is from the March 8 and 9, 2017, regional meeting on the assessment of the Atlantic mackerel stock in subareas 3 and 4. Additional publications from this meeting will be posted on the Fisheries and Oceans Canada Science Advisory Schedule as they become available.

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2017-07-27

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Avis scientifique 2017/034

Évaluation du stock de maquereau bleu du nord-ouest de l'Atlantique (sous-régions 3 et 4) en 2016

Sommaire

- Les débarquements commerciaux rapportés des sous-régions 3 et 4 de l'OPANO (Organisation des pêches de l'Atlantique Nord-Ouest) ont considérablement diminué au cours des dernières années. Entre 2005 et 2013, ils sont passés de 54 621 t à 8 663 t, pour atteindre 6 680 t en 2014 et 4 143 t en 2015. En 2016, le TAC de 8 000 t a été atteint.
- Les débarquements américains (commerciaux et récréatifs) des sous-régions 5 et 6 de l'OPANO ont aussi connu une baisse importante au cours des dernières années. Entre 2005 et 2012, ils sont passés de 43 220 t à 6 000 t et sont restés à ce niveau de 2013 à 2015.
- La problématique des prises non-déclarées a été examinée à l'aide d'une synthèse des données disponibles sur les besoins en appât et sur les pêches récréatives, ainsi qu'à l'aide d'un sondage en ligne auprès des pêcheurs. Les deux approches montrent que les prises totales peuvent atteindre entre 150 % et 200 % des prises déclarées, et que ce rapport varie selon les provinces et au cours du temps.
- Suite à son augmentation au cours des dernières années, la longueur à 50 % de maturité se maintient légèrement au-dessus de la longueur minimale de capture autorisée de 263 mm.
- La structure d'âge au sein de la pêche s'est considérablement rétrécie depuis les années 2000 suite à la disparition des poissons de plus de 7 ans. Cependant, on observe une légère amélioration depuis 2013, avec une hausse d'abondance des maquereaux d'âge 5 et 6.
- L'indice d'abondance issu du relevé des œufs dans le sud du golfe a atteint son niveau le plus bas en 2012 (14 568 t), puis a remonté lentement jusqu'à 52 667 t en 2016. Cette valeur reste très en deçà des indices d'abondance de plus de 750 000 t observés dans les années 1980.

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- Un modèle statistique de prises à l'âge, dit « censuré », calibré par l'indice d'abondance des œufs et prenant en compte l'incertitude autour des prises non-déclarées, confirme que la biomasse reproductrice du maquereau a décliné suite à des taux d'exploitation élevés et a atteint son minimum historique en 2012 (20 000 t). Selon le modèle, la biomasse en 2016 était de 40 000 t.
- Le Point de Référence Limite (PRL) pour ce stock est basé sur une approximation de 40%Brms à partir de F40% tel qu'obtenu par une analyse de rendement par recrue. Suivant le modèle censuré, le stock se situe en 2016 à 40 % du PRL de 103 000 t.
- Des projections permettent d'estimer les risques associés à différents scénarios de capture. Étant donné que le stock se situe dans la zone critique, la capture totale (déclarées + non-déclarées) devrait être suffisamment faible pour favoriser le rétablissement.
- Il est particulièrement important de pallier aux lacunes dans l'échantillonnage de la pêche commerciale dans certains secteurs, d'accélérer la compilation des statistiques de débarquements et d'améliorer la collecte des données sur les prises non-déclarées.

Le présent avis scientifique découle de la réunion régionale du 8 au 9 mars 2017 sur l'évaluation du stock de maquereau bleu des sous-régions 3 et 4. Toute autre publication découlant de cette réunion sera publiée, lorsqu'elle sera disponible, sur le calendrier des avis scientifiques de Pêches et Océans Canada.

Document PDF complet

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Date de modification :
2017-07-27

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Syed, Hamza

From: CSAS / SCCS (DFO/MPO)
Sent: August-03-17 4:00 PM
To: Doniol-Valcroze, Thomas
Cc: Cyr, Charley
Subject: Publié: SAR-AS2017/034 QC maquereau bleu (Doniol-Valcroze)

Salut Thomas et Charley,

La publication citée en rubrique est maintenant disponible sur le site web du SCCS.

Charley, les versions Word publiées sont disponibles sur le répertoire partagé. Nos copies sont déjà enregistrées dans MGCE (EKME) pour nos dossiers alors vous pouvez effacer les documents du répertoire partagé lorsqu'ils seront transférés dans vos dossiers afin de laisser de la place pour les documents qui sont en cours de publication.

Selon nos dossiers, les publications suivantes sont encore prévues pour cet évaluation :

- RES(9354) Évaluation analytique du maquereau bleu (Scomber scombrus L.) des sous-régions 3-4 de l'OPANO: utilisation d'un modèle censuré pour prendre en compte les captures non-déclarées. – par Doniol-Valcroze, T., Van Beveren, E., Duplisea, D. et Castonguay, M.

Mars 2017

Date, sujet et lieu de la réunion	Processus et région(s)	Personne-ressource	Détails & publications
Du 8 au 9 mars 2017 Évaluation du maquereau bleu des sous-régions 3-4 Mont-Joli, QC	Examen par les pairs régional(e) QUÉBEC	Gascon, Dominique Président(e) Cyr, Charley Coordonnateur(trice) du CAS 418-775-0825	Publications prévues : document de recherche compte rendu Cadre de référence Avis scientifique 2017/034

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Date, sujet et lieu de la réunion	Processus et région(s)	Personne-ressource	Détails & publications
March 8-9, 2017 Assessment of Atlantic mackerel in subareas 3 and 4 Mont-Joli, QC	Regional Peer Review QUEBEC	Gascon, Dominique Chair Cyr, Charley CSA Coordinator 418-775-0825	Expected Publications: Proceedings, and Rese Document Terms of Reference Science Advisory Report 2017/034

Bonne journée,

Isabelle Rondeau

Web and Publications Administrator, Canadian Science Advisory Secretariat
Fisheries and Oceans Canada / Government of Canada
www.dfo-mpo.gc.ca/csas-sccs/ - Tel: 613-990-0293

Administratrice de site Web et de publications, Secrétariat canadien de consultation scientifique
Pêches et Océans Canada / Gouvernement du Canada
www.dfo-mpo.gc.ca/csas-sccs/ - Tél. : 613-990-0293

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s.19(1)

Syed, Hamza

From: Doniol-Valcroze, Thomas
Sent: August-17-17 3:45 PM
To: Rondeau, Isabelle
Subject: RE: Demande de numéro - avis scientifique : évaluation du maquereau

Bonjour Isabelle,

[redacted] oui les figures sont en effet beaucoup mieux dans l'avis publié. Merci !

A bientôt,
Thomas

De : Rondeau, Isabelle
Envoyé : 2 août 2017 10:23
À : Doniol-Valcroze, Thomas
Cc : Cyr, Charley; Hurtubise, Sylvain
Objet : RE: Demande de numéro - avis scientifique : évaluation du maquereau

Salut Thomas,

J'ai en effet vue to message, mas seulement après avoir envoyée le rappel ... que j'ai ensuite tentée de rappeler. ☺

Pour les figures, je les ai coupé et recollées en format PNG qui est beaucoup plus fiable pour convertir en PDF. Est-ce que c'est mieux comme ça?
Français : http://wwwdev.ncr.dfo-mpo.ca/csas-sccs/Publications/SAR-AS/2017/2017_034-fra.html
Anglais : http://wwwdev.ncr.dfo-mpo.ca/csas-sccs/Publications/SAR-AS/2017/2017_034-eng.html

Merci!

Isabelle Rondeau

Web and Publications Administrator, Canadian Science Advisory Secretariat
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Administratrice de site Web et de publications, Secrétariat canadien de consultation scientifique
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From: Doniol-Valcroze, Thomas
Sent: August 1, 2017 10:50 PM
To: CSAS / SCCS (DFO/MPO)
Cc: Cyr, Charley; Hurtubise, Sylvain
Subject: RE: Demande de numéro - avis scientifique : évaluation du maquereau

Bonjour Isabelle,

Tu n'avais pas reçu mon e-mail de vendredi dernier (ci-joint)?

Thomas

De : CSAS / SCCS (DFO/MPO)
Envoyé : 1 août 2017 13:00
À : Doniol-Valcroze, Thomas
Cc : Cyr, Charley; Hurtubise, Sylvain
Objet : RE: Demande de numéro - avis scientifique : évaluation du maquereau

Bonjour Thomas,

Juste un rappel que nous allons publier ce-jeudi à moins d'avis contraire.

Bonne journée,

Isabelle Rondeau

Web and Publications Administrator, Canadian Science Advisory Secretariat
Fisheries and Oceans Canada / Government of Canada
www.dfo-mpo.gc.ca/csas-sccs/ - Tel: 613-990-0293

Administratrice de site Web et de publications, Secrétariat canadien de consultation scientifique
Pêches et Océans Canada / Gouvernement du Canada
www.dfo-mpo.gc.ca/csas-sccs/ - Tél. : 613-990-0293

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Canada

From: CSAS / SCCS (DFO/MPO)
Sent: July 27, 2017 8:53 AM
To: Doniol-Valcroze, Thomas
Cc: Cyr, Charley; Hurtubise, Sylvain
Subject: RE: Demande de numéro - avis scientifique : évaluation du maquereau

Tiguidou Thomas,

C'est dommage, si j'aurais plus de temps je pourrais te patenter de quoi avec PhotoShop. Voici pour ton approbation du PDF, je pourrai afficher cet après-midi si je reçois ta réponse dans la matinée.

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La publication mentionnée en rubrique est maintenant prête pour l'approbation du PDF. Le document sera affiché peu après votre approbation qui peut nous être transmis tout simplement en répondant à ce courriel.

Veuillez noter: si vous ne répondez pas dans les 5 prochains jours ouvrables, la publication sera considérée comme étant approuvée et nous allons procéder à l'affichage du document.

Les liens ci-après vous mèneront au site de développement du SCCS, où vous trouverez le Sommaire (*Summary*). En bas de la page web, veuillez cliquer sur « Document PDF complet » pour voir le document complet pour votre approbation.

Veuillez-vous assurer qu'aucun élément (texte, tableaux, figures et équations) ne manque. Vous devez notamment vérifier les titres, le positionnement des images, la pagination, les caractères gras et les italiques. Des modifications mineures, comme la correction d'erreurs typographiques, peuvent encore être apportées à ce stade ; toutefois, **veuillez noter que le but de l'approbation de l'épreuve du PDF est de s'assurer que le document s'affiche bien, et ne devrait pas être une opportunité de réviser le contenu étant donné que celui-ci est déjà approuvé**. Tout changements majeurs apportés au texte en particulier à l'avis ou aux conclusions, nécessiteront une nouvelle approbation selon la Politique en matière d'examen et d'approbation de documents.

Français : http://wwwdev.ncr.dfo-mpo.ca/csas-sccs/Publications/SAR-AS/2017/2017_034-fra.html
Anglais : http://wwwdev.ncr.dfo-mpo.ca/csas-sccs/Publications/SAR-AS/2017/2017_034-eng.html

Au cas où des changements sont nécessaires, une copie de la version finale en format Word a été déposée sur le disque national partagé à l'adresse suivante: \\svmonkenclu01\NATSHARE01\NATSHAREDDATA\CSAS-SCCS\Publications\Submissions\QC\. Veuillez communiquer avec votre coordonnateur pour accéder au ficher. Notez aussi que vos changements doivent être inclus en mode de révisions.

N'hésitez pas à communiquer avec moi si vous avez des questions ou des commentaires.

Bonne journée,

Isabelle Rondeau

Web and Publications Administrator, Canadian Science Advisory Secretariat
Fisheries and Oceans Canada / Government of Canada
www.dfo-mpo.gc.ca/csas-sccs/ - Tel: 613-990-0293

Administratrice de site Web et de publications, Secrétariat canadien de consultation scientifique
Pêches et Océans Canada / Gouvernement du Canada
www.dfo-mpo.gc.ca/csas-sccs/ - Tél. : 613-990-0293

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From: Doniol-Valcroze, Thomas
Sent: July 26, 2017 9:03 PM
To: Hurtubise, Sylvain; CSAS / SCCS (DFO/MPO); Cyr, Charley
Subject: RE: Demande de numéro - avis scientifique : évaluation du maquereau

Oui, ça me va comme ça. Nous n'avons pas été capables de reproduire exactement la figure de mon prédécesseur, mais les deux montrent la même chose.

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s.19(1)

Thomas

De : Hurtubise, Sylvain
Envoyé : 25 juillet 2017 11:48
À : CSAS / SCCS (DFO/MPO); Cyr, Charley; Doniol-Valcroze, Thomas
Objet : RE: Demande de numéro - avis scientifique : évaluation du maquereau

Bonjour Isabelle,

Merci pour l'observation!

Je vais laisser Thomas confirmer qu'il est à l'aise avec les différences ou apporter les changements nécessaires.

Bonne journée!

Sylvain Hurtubise

De : CSAS / SCCS (DFO/MPO)
Envoyé : 25 juillet 2017 10:44
À : Cyr, Charley; Hurtubise, Sylvain; Doniol-Valcroze, Thomas
Objet : FW: Demande de numéro - avis scientifique : évaluation du maquereau

Bonjour,

[redacted] je me demande si vous pouvez m'aider.

L'avis scientifique ci-joint est bientôt prête à afficher, mais on s'aperçoit que la figure 1 dans la version anglaise n'est pas tout à fait la même que dans la version française. Est-ce qu'on procède quand-même?

Merci!

Isabelle Rondeau

Web and Publications Administrator, Canadian Science Advisory Secretariat
Fisheries and Oceans Canada / Government of Canada
www.dfo-mpo.gc.ca/csas-sccs/ - Tel: 613-990-0293

Administratrice de site Web et de publications, Secrétariat canadien de consultation scientifique
Pêches et Océans Canada / Gouvernement du Canada
www.dfo-mpo.gc.ca/csas-sccs/ - Tél. : 613-990-0293

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Canada

From: Cyr, Charley
Sent: July 6, 2017 1:52 PM
To: CSAS / SCCS (DFO/MPO)
Subject: Demande de numéro - avis scientifique : évaluation du maquereau

Bonjour,

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J'aurais besoin d'un numéro pour l'avis scientifique cité en rubrique.
Je joins également le sommaire des produits de la réunion.

s.19(1) je joins les deux versions de l'avis. Vous pourrez ajouter le #.

Merci

Charley Cyr

Directeur, Avis, Informations et soutien scientifiques
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Demande de numéro de publication du SCCS

Tous les champs marqués d'un astérisque (*) sont obligatoires.

* Série	Avis scientifique (AS)
*Titre	Évaluation du stock de maquereau bleu du nord-ouest de l'Atlantique (sous-régions 3 et 4) en 2016
Titre en anglais	Assessment of the Atlantic Mackerel Stock for the Northwest Atlantic (Subareas 3 and 4) in 2016
*Noms figurant sur la publication (ex. auteur, président, pers. ressource)	Thomas Doniol-Valcroze
*Région	Québec
*Date et titre de la réunion (tel qu'indiqué sur le calendrier des avis scientifique, mot par mot)	Du 8 au 9 mars 2017 Évaluation du maquereau bleu des sous-régions 3-4
*Inclure dans le rapport des enjeux?	Non Si oui, le bureau régional doit préparer un mémo à la sous-ministre (dans un délai de 1½ semaine) et le transmettre au SCCS. Ce mémo sera utilisé par l'administration centrale (SCCS) lorsque la publication sera mentionnée dans le rapport hebdomadaire des enjeux comme document d'appui et d'information à la SM, tel que requis.
*Thème / Mot clé (Cet information aidera à indexer et à l'ajout des mot clés des publications.)	☒ Évaluation des stocks ☐ Espèces en péril ☐ Océans / Habitat ☐ Aquaculture ☐ Espèces envahissantes ☐ Cadre (ligne directrice sur l'évaluation d'une question spécifique) ☒ Particulier / Autre (veuillez spécifier dans la section "Commentaires")
Commentaires (statut de la publication et son approbation, rapport des enjeux, date de soumission prévue, etc...)	Autres: industrie de la pêche

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RÉSUMÉ DES PRODUITS DE RÉUNION

Information sur la réunion

Pour un traitement plus rapide, veuillez fournir l'information tel qu'indiqué (mot par mot) sur le calendrier des avis scientifiques disponible sur le site web du SCCS. Si l'information sur le calendrier est inexacte, prière d'informer votre coordonnateur du CAS/SCCS.

Titre de la réunion : Évaluation du maquereau bleu des sous-régions 3-4

Président(s) : Dominique Gascon

Date du début de la réunion : 2017-03-08

La réunion s'est tenue durant les mêmes dates représentées sur le calendrier d'avis scientifique : oui

Si non, veuillez préciser :

Enjeux

Une réaction est-elle prévue par les intervenants ou les médias?

Problème/réaction prévue : non

Si oui, svp élaborer et fournir l'information sur le statut de l'infocapsule, s'il y a lieu et communiquer avec votre conseiller en communications :

Commentaires du président (facultatif) :

Publications prévues

Énumérer chaque publication qu'on prévoit publier suite à la réunion. S'il n'y a pas assez d'espace sur ce formulaire, veuillez les inclure sur une feuille distincte.

Série de publication	Titre provisoire	Pers. ressources CR : président; AS ou RS : pers.-ressource; DR : auteur(s)	Date d'échéance AS et RS : 8 semaines; DR et CR : 4 mois	Éval. zonales ou nationales	
				Région pilote	Autre(s) région(s)
Compte rendu	Compte rendu de l'examen par des pairs régional portant sur l'évaluation du maquereau bleu des sous-régions 3 et 4; du 8 au 9 mars 2017	Sonia Dubé	9 juillet 2017	[sélectionner]	
Avis scientifique	Évaluation du stock de maquereau bleu du nord-ouest de l'Atlantique (sous-régions 3 et 4) en 2016	Thomas Doniol-Valcroze	4 mai 2017	[sélectionner]	
Document de recherche	Évaluation analytique du maquereau bleu (Scomber scombrus L.) des sous-régions 3-4 de l'OPANO: utilisation d'un modèle censuré pour prendre en compte les captures non-déclarées.	Doniol-Valcroze, T., Van Beveren, E., Duplisea, D. et Castonguay, M.)	9 juillet 2017	[sélectionner]	

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Série de publication	Titre provisoire	Pers. ressources CR : président; AS ou RS : pers.-ressource; DR : auteur(s)	Date d'échéance AS et RS : 8 semaines; DR et CR : 4 mois	Éval. zonales ou nationales	
				Région pilote	Autre(s) région(s)
Document de recherche	Le maquereau bleu (Scomber scombrus L.) des sous-régions 3-4 de l'OPANO en 2016	Doniol-Valcroze, T., Légaré, B., Girard, L., Van Beveren, E. et Castonguay, M	9 juillet 2017	[sélectionner]	
SVP Sélectionner				[sélectionner]	
SVP Sélectionner				[sélectionner]	
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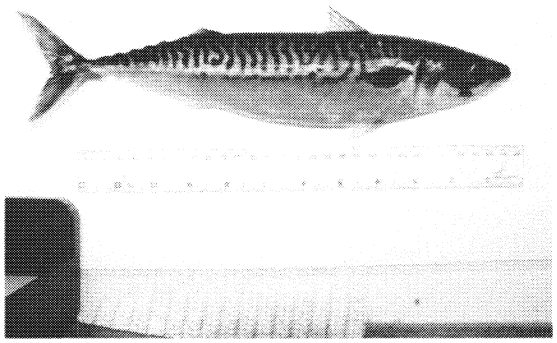
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Fisheries and Oceans Canada | Pêches et Océans Canada
Ecosystems and Oceans Science | Sciences des écosystèmes et des océans

Canadian Science Advisory Secretariat
Science Advisory Report 2017/nnn

Quebec Region

ASSESSMENT OF THE ATLANTIC MACKEREL STOCK FOR THE NORTHWEST ATLANTIC (SUBAREAS 3 AND 4) IN 2016



(Courtesy: Claude Nozères)

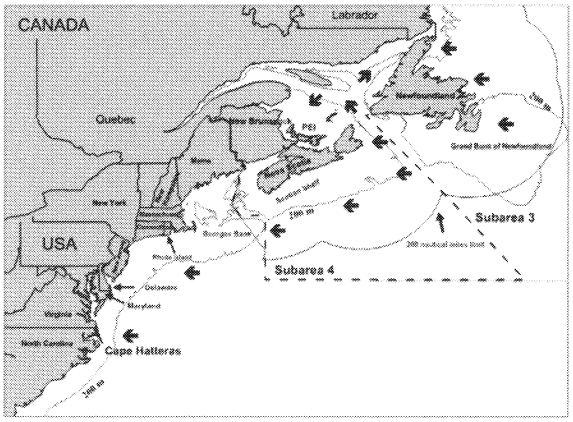


Figure 1. Distribution (←) of Atlantic mackerel (Scomber scombrus L.) in the Northwest Atlantic.

Context:

Atlantic mackerel (Scomber scombrus L.) is found in the waters of the Northwest Atlantic from North Carolina to Newfoundland (Figure 1). During spring and summer, Atlantic mackerel is found in inshore waters. From late fall and in winter, it is found deeper in warmer waters at the edge of the continental shelf. Two main spawning areas characterize its distribution range. In Canadian waters, spawning occurs mainly in the southern Gulf of St. Lawrence during June and July. In American waters, spawning occurs during March and April between the coasts of Rhode Island and Virginia.

In the Maritime Provinces, Newfoundland and Quebec (NAFO subareas 3 and 4), several thousand commercial fishers participate in the Atlantic mackerel fishery. They fish mainly inshore using gillnets, jiggers, handlines, seines and traps, depending on the region and the time of year. Landings by Canadian fishers were stable and averaged 22,000 t per year in the 1980s and 1990s. However, landings increased significantly in the early 2000s, reaching a historical high of 54,621 t in 2005. Average landings for 2006–2010 were 43,464 t. They then fell significantly to a historical low of 4,134 t in 2015.

Canadian Atlantic mackerel landings are underestimated because of unreported bait fishing. In addition, catches in the recreational fishery, which occurs during summer months all along the Atlantic coast, and the discards of small mackerel are not recorded.

The last assessment of the Canadian Atlantic mackerel contingent was completed in March 2014. The Fisheries and Aquaculture Management Branch has requested scientific advice on the Canadian Atlantic mackerel quota for the 2017 and 2018 fishing seasons.

July 2017

Canada

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SUMMARY

- Reported commercial landings in NAFO subareas 3 and 4 have decreased significantly in recent years. Between 2005 and 2013, they decreased from 54,621 t to 8,663 t before reaching 6,680 t in 2014 and 4,143 t in 2015. In 2016, the TAC of 8,000 t was reached.
- US landings (commercial and recreational) in NAFO subareas 5 and 6 also decreased significantly in recent years. Between 2005 and 2012, they decreased from 43,220 t to about 6,000 t and have remained at that level from 2013 to 2015.
- The issue of unrecorded catches has been investigated using a review of available data on bait needs and recreational fisheries, as well as an online survey aimed at mackerel fishermen. Both approaches show that total catches can reach 150% to 200% of declared catches, and that this ratio varies among regions and years.
- Following its increase in recent years, the length at 50% maturity has remained slightly above the minimum authorized length of 263 mm.
- The age structure in the fishery has contracted considerably since 2000 following the disappearance of fish older than 7 years. However, a slight improvement has been observed since 2013, with an increase of mackerel of ages 5 and 6.
- The abundance index from the egg survey in the southern Gulf reached its lowest level in 2012 (14,568 t), then slowly increased to 52,667 t in 2016. This value remains far below the abundance levels of over 750,000 t observed in the 1980s.
- A "censored" statistical catch-at-age model, calibrated with the abundance index from the egg survey and taking into account the uncertainty due to unrecorded catches, confirms that mackerel spawning biomass has declined due to high exploitation rates and reached its historical minimum in 2012 (20,000 t). According to the model, the 2016 spawning biomass was 40,000 t.
- The Limit Reference Point (LRP) for this stock is a proxy of $40\%B_{msy}$ based on $F_{40\%}$ derived from a yield-per-recruit analysis. According to the censored model, stock abundance in 2016 was about 40% of the 103,000 t LRP.
- Model projections were used to quantify the risks associated with different catch scenarios. Considering that the stock is in the critical zone, total catches (declared + unreported) should be low enough to facilitate recovery.
- It is particularly important to fill gaps in the biological sampling of the commercial catch in some areas, to accelerate compiling of landing statistics and to improve data collection on unreported catches.

BACKGROUND

Historical overview

With the arrival of foreign fishing, Atlantic mackerel (*Scomber scombrus* L.) landings in the Northwest Atlantic (NAFO subareas 2 to 6) increased significantly starting in the late 1960s, reaching historical highs of over 250,000 t per year between 1970 and 1976. Atlantic mackerel landings dropped considerably in 1977 with the introduction of the 200-nautical-mile exclusive economic zone. However, as a result of agreements between the United States and the USSR in the early 1980s, they increased again to peak at near 90,000 t in 1990 (Figure 2). Landings

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then dropped considerably again as the US gradually reduced the mackerel quotas allocated to the USSR and closed the foreign fleet fishery completely in 1992.

Mackerel landings increased by nearly 400% between 2000 and 2006 due to the presence of a dominant year-class (1999) and a significant increase in fishing effort by small and large seiners on the east and west coasts of Newfoundland (divisions 3KL and 4R). Total landings exceeded 100,000 t in 2004 and 2006. Landings have been decreasing since 2006 and reached the lowest point of the Canadian–US historical series in 2015.

Between 1987 and 2000, the total allowable catch (TAC) for the Northwest Atlantic was 200,000 t. Following the low biomass estimates from the 1996, 1998 and 2000 egg surveys, Canada lowered the TAC to 150,000 t between 2001 and 2009. The TAC in subareas 3 and 4 was lowered to 80,000 t following the 2009–2010 joint Canada–US assessment, to 60,000 t following the 2010 Canadian Advisory Committee meeting, and to 36,000 t following the 2012 Canadian Advisory Committee meeting. Throughout this period, the Canadian TACs were never reached and therefore were not restrictive. In 2014, the TAC was set at 8,000 t, despite scientific advice recommending that annual catches not exceed 800 t (DFO 2014).

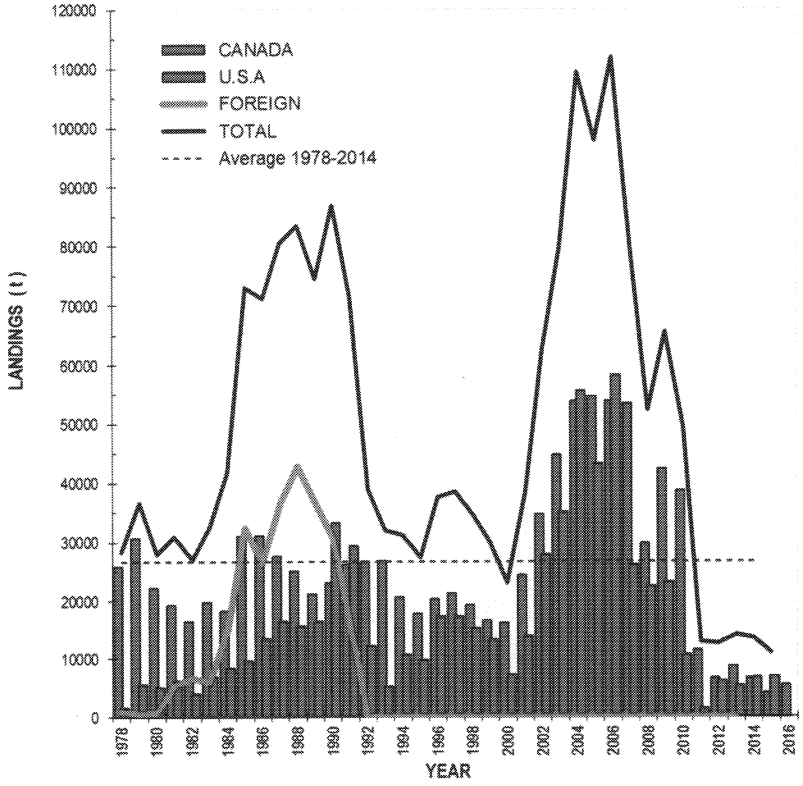


Figure 2. Annual Atlantic mackerel landings (t) in the northwest Atlantic (NAFO subareas 2 to 6) since 1978.

Landings 2014–2016

In eastern Canada (NAFO subareas 3 and 4), landings totalled 6,680 t in 2014 and 4,143 t in 2015 (Table 1). In 2015, landings were the lowest in the entire historical series (since 1960), and they have remained far below catch levels from 2001–2010. In 2016, the TAC of 8,000 t was reached for the first time (but landing statistics by region are still preliminary). In the United

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States, landings have remained stable and below 6,000 t since 2012, but the numbers for 2016 are not yet available.

Table 1. Annual Atlantic mackerel landings (t) in NAFO subareas 2 to 6 from 2001 to 2016. The 2015 and 2016 Canadian landings are preliminary. Unlike the US, Canada does not record recreational fishery catches.

YEAR	CANADA	USA		TOTAL
	Canadian vessels	Commercial	Recreational	
2001	24,429	12,340	1,536	**38,305**
2002	34,662	26,530	1,294	**62,485**
2003	44,736	34,298	770	**79,804**
2004	53,777	54,990	473	**109,240**
2005	54,621	42,187	1,032	**97,840**
2006	53,649	56,640	1,511	**111,801**
2007	53,016	25,547	584	**79,147**
2008	29,671	21,734	783	**52,188**
2009	42,231	22,635	603	**65,470**
2010	38,753	9,877	759	**49,388**
2011	11,400	531	932	**12,863**
2012	6,582	5,333	668	**12,487**
2013	8,663	4,372	887	**12,681**
2014	6,680	5,905	788	**13,373**
2015 [1]	4,143	5,616	1,157	**10,917**
2016 [1]	5,357	N/A	N/A	**N/A**

[1] Preliminary

Of the 4,143 t of mackerel caught in Canadian waters in 2015, only 17% (700 t) were landed in Newfoundland; this percentage was on average 71% from 2001 to 2010 and 54% since 2011. However, in 2016, 4,513 t were landed in Newfoundland (more than half the commercial TAC), of which 1,710 t were in 4R and 2,803 t were in 3K, though there had been no significant landings in 3K since 2010 (Table 2). The main fishing gear used in 2015 was the handline (with 1,377 t out of 4,143 t), whereas in 2016 the main gear was the small purse seine with 3,657 t.

For several years, 40% of the Canadian TAC has been allocated to large seiners and 60% to small seiners, the "tuck-ring" seine, and fixed gear such as traps, gillnets, lines and weirs. Large seiners caught only 10% of their allocation in 2015 and 3% in 2016.

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Table 2. Annual mackerel landings (t) by NAFO division since 2001. The 2015 and 2016 landings are preliminary.

DIVISION AND REGION	YEAR															
	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015 [1]	2016 [1]
2J	0	0	0	0	0	0	0	0	0	0	0	78	4	0	0	0
3K	322	6,566	588	16,360	24,024	19,176	8,768	9,125	6,898	12,916	426	129	191	6	208	2,803
3L	10	3	0	59	4,068	7,960	10,673	4	39	830	61	3	0	25	54	0
3O	0	0	0	0	0	0	27	0	0	0	0	0	0	0	0	0
3P	273	162	149	79	238	266	354	166	5,387	5,541	1,544	149	26	246	0	0
4R	8,375	11,251	25,938	23,885	14,141	16,874	24,782	13,741	21,913	13,871	5,306	2,261	4,909	3,155	438	1,710
4S	16	2	0	0	35	76	19	23	64	123	107	304	245	20	29	63
4T	12,316	14,484	14,324	9,152	9,424	7,785	5,763	5,439	6,815	4,919	3,549	2,866	2,748	2,389	2,242	750
4V	125	308	60	13	126	224	370	111	55	7	2	150	146	143	58	0
4W	248	115	9	59	36	75	59	63	65	129	18	177	17	220	186	0
4X	2,743	1,771	3,669	4,169	2,529	1,304	1,928	1,000	980	416	389	365	241	340	682	0
5YZ	0	0	0	0	0	0	0	0	16	0	0	0	0	0	245	0
Unknown	0	0	0	0	0	0	652	0	0	0	0	100	137	135	0	31
Scotian Shelf (4VWX5YZ)	**3,117**	**2,194**	**3,737**	**4,241**	**2,691**	**1,603**	**2,357**	**1,173**	**1,116**	**552**	**409**	**692**	**403**	**703**	**1,172**	**0**
Gulf of St. Lawrence (4RST)	**20,707**	**25,737**	**40,262**	**33,037**	**23,600**	**24,735**	**31,129**	**19,203**	**28,792**	**18,913**	**8,962**	**5,431**	**7,902**	**5,564**	**2,710**	**2,523**
Eastern and southern coasts of Newfoundland (2J3KLOP)	**605**	**6,731**	**737**	**16,498**	**28,330**	**27,403**	**19,529**	**9,295**	**12,324**	**19,288**	**2,031**	**359**	**221**	**278**	**262**	**2,803**
TOTAL	**24,429**	**34,662**	**44,736**	**53,777**	**54,621**	**53,741**	**53,394**	**29,671**	**42,231**	**38,753**	**11,400**	**6,582**	**8,663**	**6,680**	**4,143**	**5,357**

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Unreported catches

Unreported catches are a significant issue for the mackerel fishery. This is because a large amount of commercial fishery catches sold directly to other fishers and the bait fishery for personal use are not accounted for in DFO statistics. Catches from the recreational fishery, which is very popular in the summer months, are not recorded either. Because this activity is practised throughout Eastern Canada by many people, including tourists (off wharves, on charter ships, and in a semi-commercial manner in certain places), the actual Atlantic mackerel catch statistics are largely underestimated. For many years, science advice on Atlantic mackerel has included a recommendation to improve statistics on the fishery overall, and to consider how to estimate these catches.

In this assessment, the issue of unreported catches was first examined by summarizing the available data on bait needs and recreational fisheries. The results of this exercise were used to estimate the approximate maximum unreported catches for each region and the variations in these catches over time. In addition, an informal internet survey aimed at all Canadian mackerel fishers was used to obtain their approximate estimates of the proportion of unreported catches (bait, discards, and recreational catches). There were 476 respondents in Quebec and the four Atlantic provinces who fished mackerel for bait or recreational or commercial purposes (Van Beveren et al. 2017). The results showed that over half of mackerel used for bait in 2016 were used in the lobster fishery, but mackerel was also used to bait other species, such as bluefin tuna (*Thunnus thynnus*), snow crab (*Chionoecetes opilio)* and Atlantic halibut (*Hippoglossus hippoglossus*). The recreational fishery, which generally uses a handline, can also be practiced semi-professionally with jiggers and gillnets, meaning it should not be overlooked. In addition, according to the respondents, 1.9% of catches were discarded, mainly because they were too small.

Both approaches (summary of bait needs and online survey) suggest that, due to its use as bait, the recreational fishery, and discards, total mackerel catches may be between 150% and 200% of reported catches, and that this percentage varies from province to province and over time.

ASSESSMENT

Age structure and length frequency of catches

Mackerel age structure is mainly influenced by the periodic arrival of dominant year-classes. Year-classes such as those of 1967, 1974, 1982, 1988 and 1999 completely dominated commercial catches for several years. For example, fish from the 1999 year-class contributed up to 77% of all catches (in numbers) made between 2000 and 2004. The abundance of this year-class decreased rapidly starting in 2004, and it did not persist in the population for as long as previous dominant year-classes (Figure 3). Since then, medium-sized new year-classes have been quickly caught in the fishery (e.g. 2003, 2005, 2007, 2008, and 2010), and the age structure in this fishery has considerably diminished since the 2000s due to the disappearance of fish over 7 years old. However, a slight improvement has been observed since 2013, with an increase in the abundance of 5- and 6-year-old mackerel (Figure 4).

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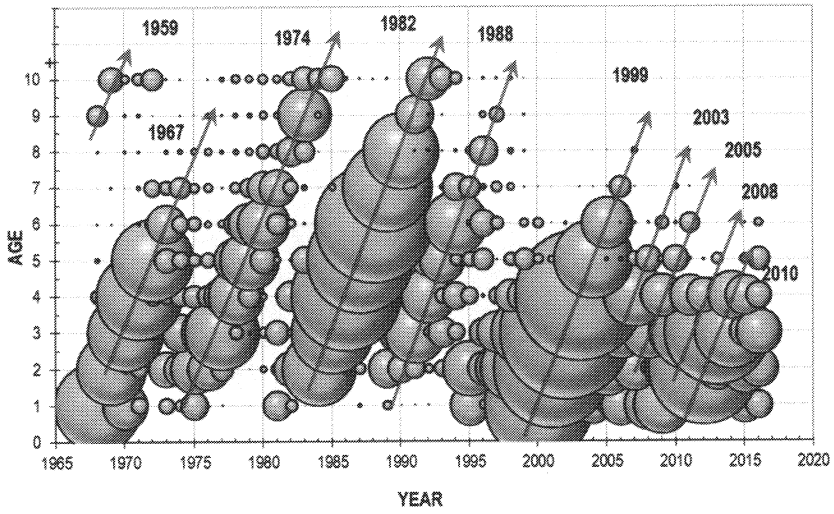


Figure 3. Catch-at-age in the commercial fishery (red arrows indicate dominant year-classes). The size of the circles is proportional to fish abundance.

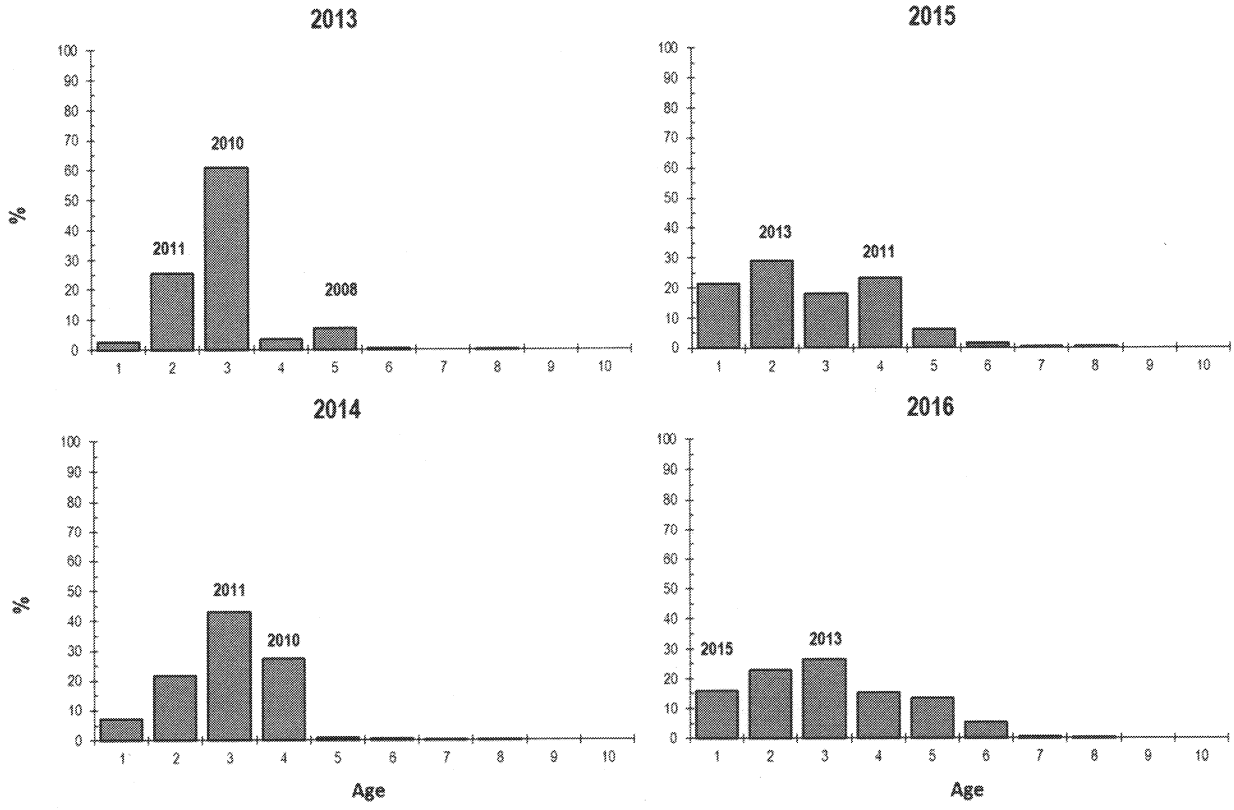


Figure 4. Proportion of year-classes in the commercial fishery (the dates above the bars indicate the progression of dominant year-classes).

Mackerel length frequencies are characterized by the occurrence of modes corresponding to dominant year-classes, which shift toward larger sizes over the years. These modes are observed in the length frequencies of all fishing gear. However, the first year these year-classes

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are detected in the length frequencies depends on the selectiveness of the fishing gear and therefore on the region. In 2016, a spike in the frequency of small fish was observed in 4R from mackerel in the 2015 year-class (Figure 5). This significant spike could indicate that recruitment was strong in 2015 and be an early sign of the entry of a large cohort in the fishery in 2017. This signal is also observed in catches in 4T to a lesser extent, but not in 3K or 4S.

Biological indicators

The proportion of mature fish at age has not varied much over the years. The average age at 50% maturity (A_{50}) was 1.40 in the 2000s and 1.39 between 2010 and 2015. However, the average length at 50% maturity (L_{50}) varied considerably over the years (Figure 6). L_{50} was over the minimum allowable catch size of 250 mm in most years from 1974–2013, suggesting that there was significant fishing pressure on immature fish. The increase in the minimum allowable catch length from 250 to 263 mm, which came into effect in 2014, and the application of a small fish protocol developed for mackerel, should increase the spawning potential by reducing this pressure. Following its increase in recent years, L_{50} has remained slightly above the minimum allowable catch length of 263 mm since 2013, which indicates that the current limit is still appropriate.

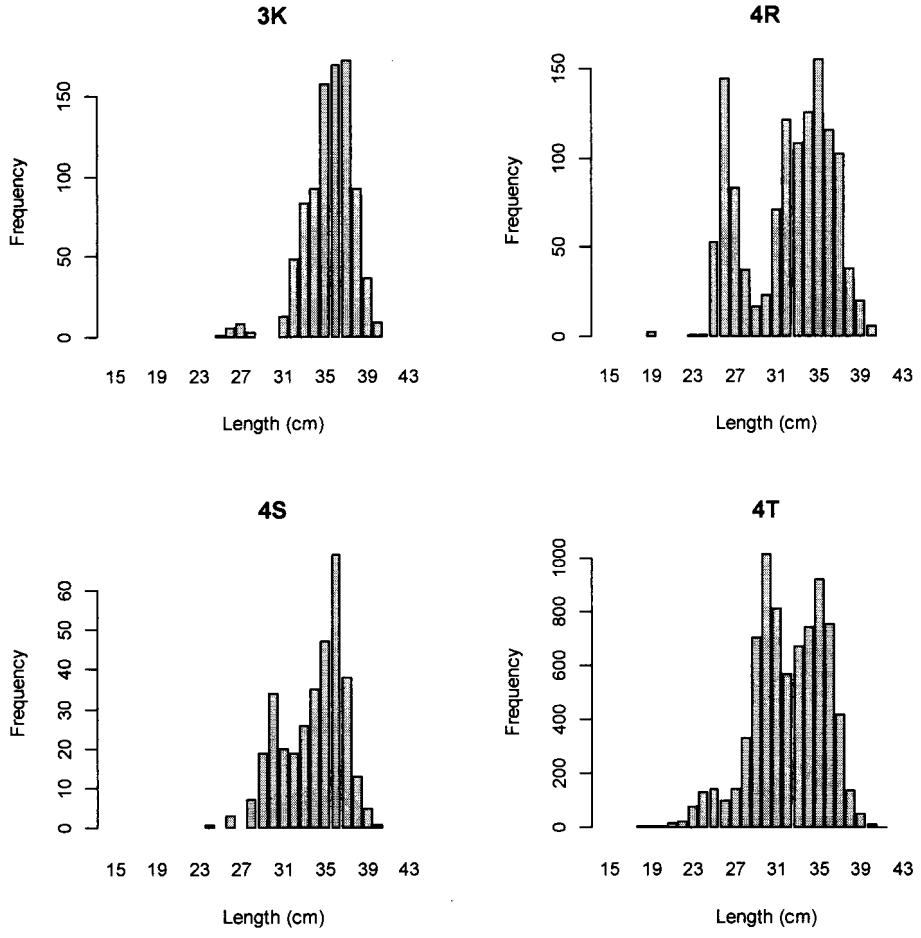


Figure 5. Length frequencies of mackerel caught in divisions 3K, 4S, 4R and 4T in 2016.

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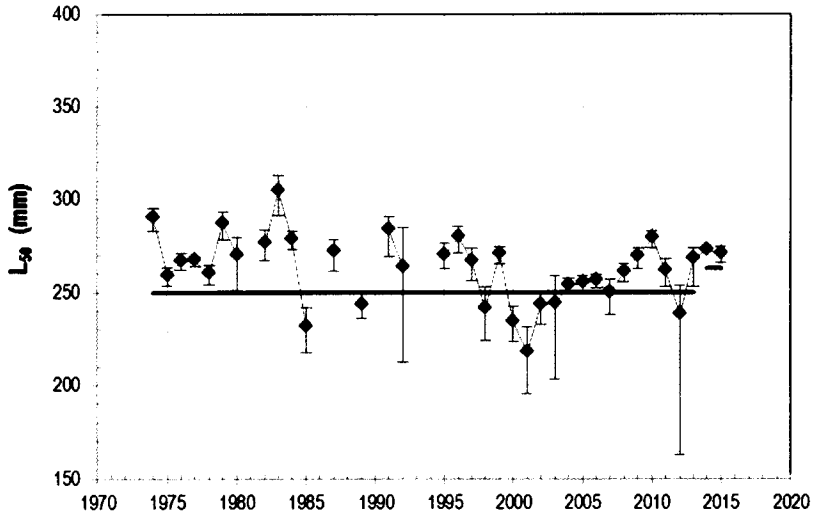


Figure 6. Length at 50% maturity (annual mean with 95% confidence intervals) of Atlantic mackerel in NAFO subareas 3 and 4 since 1973 (the horizontal line indicates the minimum allowable catch length, which was 250 mm until 2013 and 263 mm starting in 2014).

Egg survey and abundance index

Mackerel abundance is estimated using data from an egg survey that takes place annually at the main spawning site in the southern Gulf of St. Lawrence. In the 2013 and 2014 surveys, the highest egg densities (n/m^2) were found in the northwest part of the area sampled (Figure 7). In 2015 and 2016, egg distribution was broader, especially toward the centre and south of the survey area, but was not comparable to the very wide-ranging distributions observed in the 1990s.

Taking into account the water temperature, the incubation time, and the average weight and fecundity of females in biological samples, egg densities can be used to calculate a spawning biomass abundance index. This index increased significantly three times over the years due to the arrival of the 1982, 1988, and 1999 dominant year-classes (Figure 8). The index decreased significantly between 1993 and 1998 and again after 2002, reaching its lowest level in 2012 (14,568 t). It then rose slowly to 52,667 t in 2016. This value is still well below the abundance indices of over 750,000 t observed in the 1980s.

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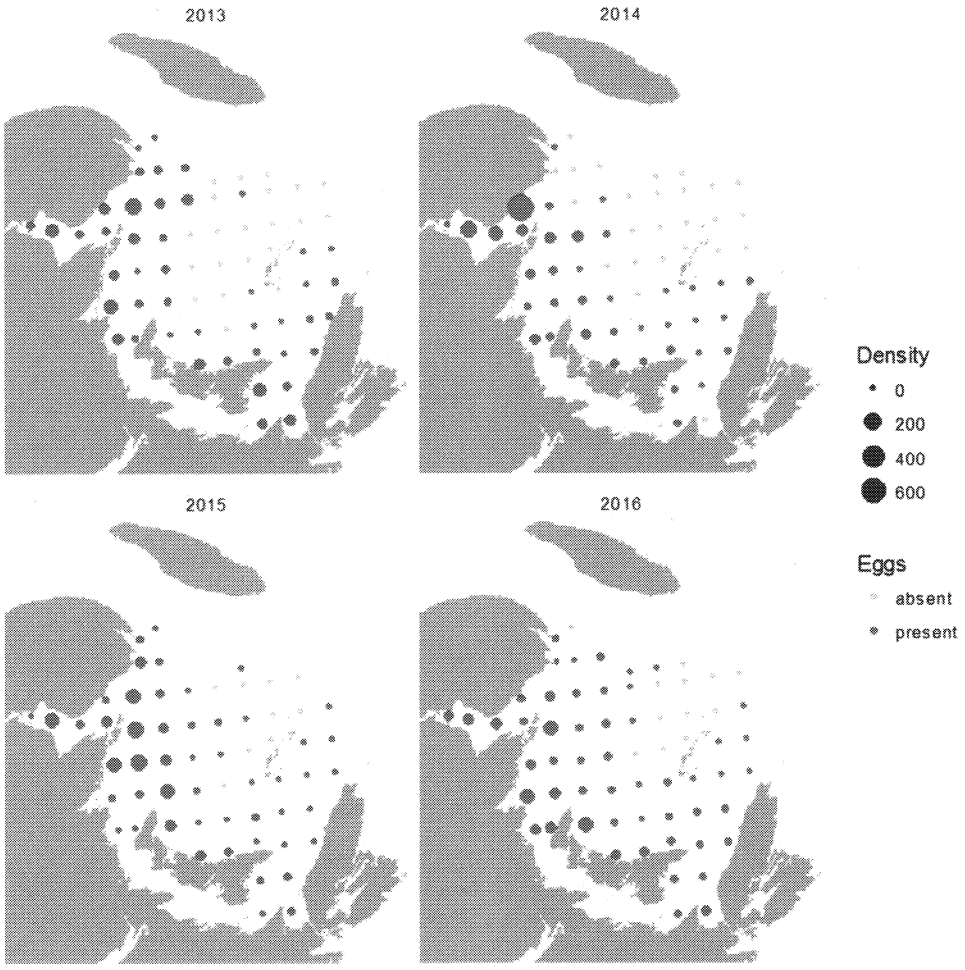


Figure 7. Distribution of mackerel egg (stages 1 and 5) densities (n/m^2) measured in surveys in the southern Gulf of St. Lawrence from 2013 to 2016.

In 2015 and 2016, five additional surveys were carried out in White and Notre-Dame bays on the northeast coast of Newfoundland (3K) following observations by industry of young mackerel in the area. These surveys were repeated several times over the summer to find potential additional spawning areas. However, no signs of mackerel spawning were detected in the samples, and the southern Gulf remains therefore the main spawning area taken into account in this assessment for subareas 3 and 4.

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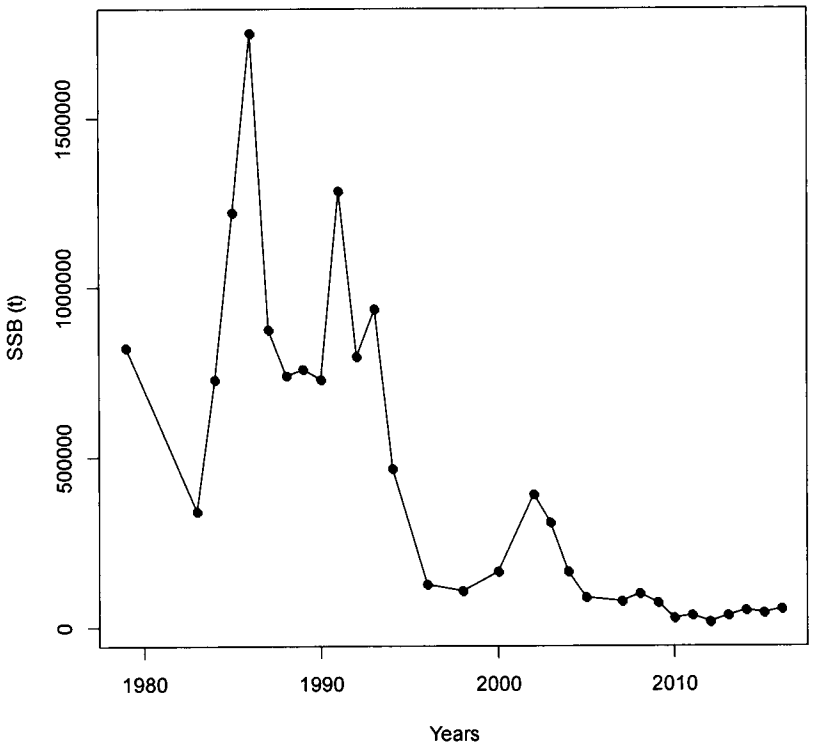


Figure 8. Mackerel spawning stock biomass abundance index calculated using the total egg production method, based on egg densities observed in the southern Gulf in June.

Analytical assessment

The 2012 and 2014 analytical assessments used only reported catches and were therefore suspected of underestimating the real size of the mackerel stock. A new model was developed specifically to address this gap for Atlantic mackerel. This censored catch-at-age statistical model uses a new approach where reported catches are explicitly considered to be biased and below total real catches. Total catches are estimated by the model based on the abundance index and catch-at-age data. To do this, an upper limit needs to be placed on additional catches. As much as possible, the maximum values for unreported catches were informed by available data on the bait fishing industry (the order of magnitude of which was confirmed by the results of the online survey).

This censored model, calibrated by the egg abundance index and taking into account the uncertainty due to unreported catches, confirmed that mackerel spawning biomass decreased due to high exploitation rates in the 1990s and 2000s and reached its historical minimum in 2012 (20,000 t). According to the model, the spawning biomass then slowly increased to approximately 40,000 t in 2016 (Figure 9a).

The model also suggests that additional catches (the difference between estimated total catches and reported catches) represented an average of 6,000 t over the past 10 years (Figure 9b).

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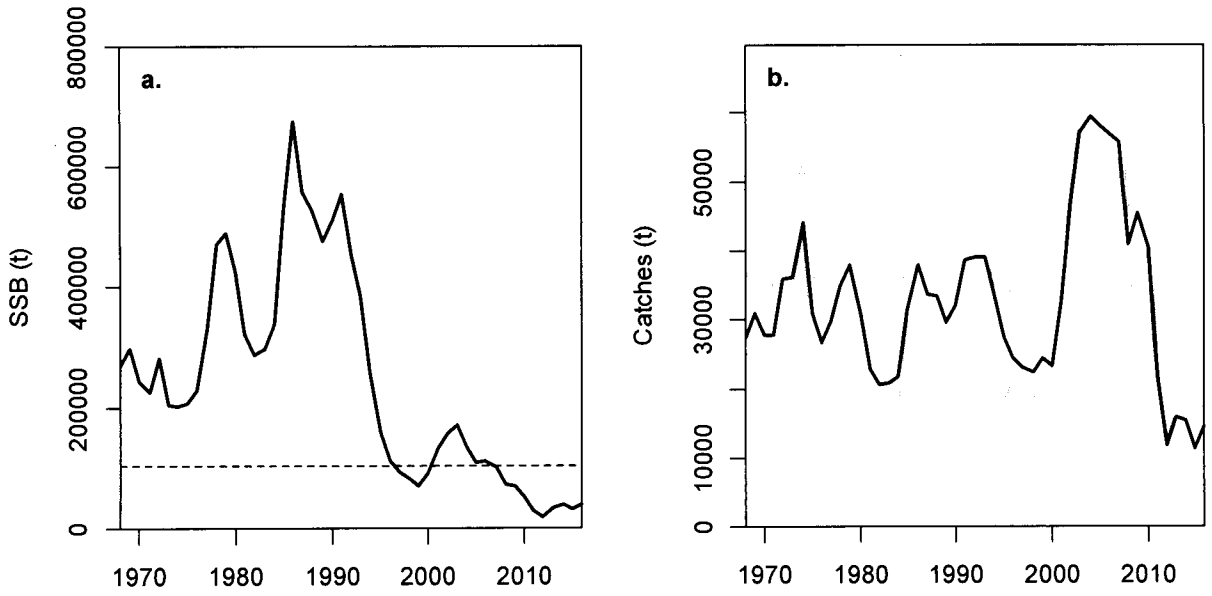


Figure 9. (a) Mackerel spawning stock biomass in NAFO subareas 3 and 4 for 1968–2016 estimated by a censored catch-at-age statistical model; dotted red line: limit reference point (b). Estimated catches for NAFO subareas 3 and 4. Lower grey line: lower limit of censored model (= reported catches); upper grey line: upper limit (based on bait needs and recreational fishery estimate); black line: total catches (reported + unreported) as estimated by the model.

In accordance with the Canadian framework for applying the precautionary approach, the limit reference point (LRP) for this stock is 40% of the biomass corresponding to the maximum sustainable yield (B_{msy}). However, since there is no clear stock-recruitment relationship observed for this pelagic stock, B_{msy} is based on an approximation of $F_{40\%}$ as obtained through a yield-per-recruit analysis. According to the statistical model, the LRP is equal to 103,000 t, and the stock in 2016 is about 40% of the LRP.

The censored model was also used to make three-year projections to estimate the impact of different total catch scenarios (reported + unreported) for 2017 and 2018. These projections use the average parameters for the past three years (e.g. weight-at-age, maturity) and random recruitment (which does not consider the possibility of an extreme recruitment event). Among other scenarios, these projections suggest that the probability of an increase in biomass is over 80% for total catches under 14,000 t per year (Table 3). The commercial TAC must take into account the uncertainty around real levels of unreported catches; the exact unreported catches are unknown, but they are estimated by the model to be about 6,000 t per year for 2011–2016. Thus, a TAC of 8,000 t (status quo) would result in an 81% probability of an increase in biomass and a 30% probability of reaching the LRP by 2019, assuming unreported catches are around 6,000 t in 2017 and 2018.

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Table 3. Mackerel spawning biomass (SSB) and stock exploitation rate projections under different total catch scenarios (reported + unreported) calculated using a censored catch-at-age statistical model. For 2019, the table gives the probability of growth (SSB greater than in 2016) and the probability of exceeding the LRP of 103,000 t.

Reported + unreported catches (t)		2017		2018		2019		
2017	2018	SSB (t)	Expl. rate	SSB (t)	Expl. rate	SSB (t)	Prob. > 2016	Prob. > LRP
0	0	48,283	0.00	77,164	0.00	113,886	0.95	0.56
4,000	4,000	48,283	0.08	72,175	0.06	103,378	0.93	0.50
6,000	6,000	48,283	0.13	68,503	0.09	96,927	0.92	0.46
8,000	8,000	48,283	0.17	64,910	0.12	90,889	0.89	0.42
10,000	10,000	48,283	0.21	62,762	0.16	85,686	0.87	0.40
12,000	12,000	48,283	0.25	59,466	0.21	77,143	0.84	0.34
14,000	14,000	48,283	0.29	56,858	0.24	72,189	0.81	0.30
16,000	16,000	48,283	0.33	54,018	0.29	66,158	0.77	0.26
18,000	18,000	48,283	0.38	50,928	0.36	57,113	0.70	0.20
20,000	20,000	48,283	0.42	47,502	0.42	51,348	0.64	0.17
24,000	24,000	48,283	0.50	41,704	0.59	35,728	0.44	0.09
30,000	30,000	48,283	0.62	33,053	0.90	17,199	0.16	0.02

Sources of uncertainty

Unreported catches from the bait and recreational fisheries are still a significant source of uncertainty in the assessment of the mackerel stock. The censored statistical model, which accounts for the uncertainty in catches, was developed and used to propose a more realistic estimate of total catches, spawning biomass, and stock exploitation rates. However, this statistical tool cannot be used to predict future unreported catches and is not a substitute for the pressing need for better reporting of total catches in the mackerel fishery.

The discarding of small mackerel under the minimum allowable catch length (263 mm) is also a problem. The extent of the discarding and the impact of this activity on the abundance of the year-classes at older ages are difficult to quantify.

There are several gaps in the biological sampling program of the commercial fishery, especially in the southern Gulf and the Maritimes. The low number of samples available in these areas, especially during the pre-spawning period, limits our ability to describe the spawning period and fish condition, which may affect the calculation of the abundance index based on the egg survey.

Significant recruitment episodes are difficult to detect in the scientific data (fishery sampling, egg survey) before the corresponding cohort reaches age 2. However, a spike in frequency of small fish corresponding to mackerel from the 2015 year-class was observed in the fishery in 4R in 2016. In addition, approximately half of fishers who answered the online survey reported that small mackerel were very abundant in 2016. These could be signs that recruitment was higher in 2015 than levels observed in recent years.

CONCLUSIONS AND ADVICE

The previous science advisory report (2014) was biased because it did not include estimates of unreported catches. This report contains the best possible estimates of unreported catches, obtained using a new statistical model, and therefore provides a more realistic spawning stock biomass estimate.

Based on the results of this assessment, the Atlantic mackerel stock in subareas 3 and 4 has reached its lowest historical level in 2012. The statistical model suggests that catch levelsin

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recent years have allowed for slow growth from 2013 to 2016, but that the stock is still in the critical zone. The catch-at-age data indicate a slight improvement in the age structure but no significant recruitment episode since 1999.

Based on the decision framework for the precautionary approach, when a stock is in the critical zone, conservation must be given priority, and management measures must promote growth. Exploitation from all sources must allow for a high probability of the stock growing out of the critical zone within a reasonable timeframe. Projections made using the statistical model, taking into account unreported catches, suggest for example that the probability of an increase in biomass is over 80% for total catches (reported plus unreported) under 14,000 t, which corresponds to a low risk of decline (5% to 25%) under the precautionary approach.

However, the commercial TAC must also take into account unreported catches, for which exact rates are unknown but estimated at several thousand tonnes per year. A TAC of 8,000 t (status quo compared to 2015–2016) would result in an 81% probability of an increase in biomass and a 30% probability of reaching the LRP by 2019, assuming unreported catches are around 6,000 t in 2017 and 2018.

It is also especially important to fill the gaps in commercial fishery sampling in certain sectors, to accelerate compilation of landing statistics, and to improve collection of data on unreported catches.

SOURCES OF INFORMATION

This Science Advisory Report is from the March 8 and 9, 2017, regional meeting on the assessment of the Atlantic mackerel stock in subareas 3 and 4. Additional publications from this meeting will be posted on the Fisheries and Oceans Canada Science Advisory Schedule as they become available.

DFO. 2014. Assessment of the Atlantic Mackerel Stock for the Northwest Atlantic (Subareas 3 and 4) in 2013. DFO Can. Sci. Advis. Sec., Sci. Advis. 2014/030

Van Beveren, E., Castonguay, M., Doniol-Valcroze, T., and Duplisea, D. 2017. Results of an informal survey of Canadian Atlantic mackerel commercial, recreational and bait fishers. DFO Can. Sci. Advis. Sec. Res. Doc. 2017/029. v + 26 p.

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Aussi disponible en français:

MPO. 2017. Évaluation du stock de maquereau bleu du nord-ouest de l'Atlantique (sous-régions 3 et 4) en 2016. Secr. can. de consult. sci. du MPO, Avis sci. 2017/nnn.

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Cawthray, Jenness

From: Waters, Christa
Sent: July-27-17 1:47 PM
To: Cawthray, Jenness
Subject: RE: Atlantic Mackerel

10,000 mt?

Christa Waters
Regional Senior Fisheries Management Advisor
Resource Management | Gestion des Pêches
Maritimes Region | Région des Maritimes
Telephone | Téléphone 902-293-6541

From: Cawthray, Jenness
Sent: July-27-17 12:56 PM
To: Mallet, Pierre; Rivierre, Antoine; Dunne, Erin; Waters, Christa; Gaudet, Mario; Marentette, Julie
Cc: Fagan, Ashley; Beamish, Kayla
Subject: RE: Atlantic Mackerel
Importance: High

The memo has been signed by the Minister. I will let you know when the lines are ready for the announcement.

From: Mallet, Pierre
Sent: July-27-17 10:30 AM
To: Cawthray, Jenness; Rivierre, Antoine; Dunne, Erin; Waters, Christa; Gaudet, Mario; Marentette, Julie
Cc: Fagan, Ashley; Beamish, Kayla
Subject: Re: Atlantic Mackerel

Hi Jenness
In the pas the decision and mgt measures were posted on the fisheries management decision site and a notice to harvester was issued. Use the AMAC member distribution list.
Thanks

Sent from my BlackBerry 10 smartphone on the Rogers network.

From: Cawthray, Jenness
Sent: Thursday, July 27, 2017 11:21 AM
To: Rivierre, Antoine; Dunne, Erin; Waters, Christa; Mallet, Pierre; Gaudet, Mario; Marentette, Julie
Cc: Fagan, Ashley; Beamish, Kayla
Subject: FW: Atlantic Mackerel

Hi Everyone,
A heads-up that the memo should be signed soon. For your information, I have also attached the DRAFT media lines.
[redacted]can someone provide some intel on how the announcement works for this fishery? Is there a notice to fish harvesters, posting on the website??
Thanks!
Jenness

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From: Burns, Adam
Sent: July-27-17 9:46 AM
To: Cawthray, Jenness
Cc: Gilchrist, Brett; Buie, Jennifer
Subject: FW: Atlantic Mackerel

FYI, please work with comms.

From: Trudeau, Miriam
Sent: July 26, 2017 4:59 PM
To: Burns, Adam <Adam.Burns@dfo-mpo.gc.ca>; Lapointe, Sylvie <Sylvie.Lapointe@dfo-mpo.gc.ca>; Hubley , Marian <Marian.Hubley@dfo-mpo.gc.ca>; McPherson, Arran <Arran.McPherson@dfo-mpo.gc.ca>
Cc: French, Christopher <Christopher.French@dfo-mpo.gc.ca>; White, Andrea <Andrea.White@dfo-mpo.gc.ca>; Quinn, Caroline <Caroline.Quinn@dfo-mpo.gc.ca>; Butcher, Ashley <Ashley.Butcher@dfo-mpo.gc.ca>; Hopkins, Lillian <Lillian.Hopkins@dfo-mpo.gc.ca>; Malko, Carol <Carol.Malko@dfo-mpo.gc.ca>; Patrick, Lindsey <Lindsey.Patrick@dfo-mpo.gc.ca>
Subject: Atlantic Mackerel

Hello:

MINO has indicated that the Minister will be signing this docket. Could the Department be prepared with lines regarding management measures and science in case there are any concerns/questions?

I do not yet have the physical signed docket but MINO wanted to flag this information urgently. I have attached an electronic copy of the docket that was signed by the Associate and went into MINO.

Thanks,

AB

Miriam Trudeau
A/Director, Departmental Liaison
Directrice / intérimaire, Liaison ministériel

Fisheries and Oceans Canada | Pêches et Océans Canada
200 Kent Street | 200, rue Kent | 15N114
Ottawa, Canada K1A 0E6
(613) 947-4557| miriam.trudeau@dfo-mpo.gc.ca

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s.21(1)(b)

Lubar, John

From: Woodford, Jan
Sent: July-27-17 3:27 PM
To: Anderson, Kevin; Perry, Jacqueline
Cc: Kelly, Janet; Dunderdale, Sara; Rumbolt, Annette; Blanchard, Tony; Abbass, Lily; Whiffen, Sam; Davis, Ben; Lubar, John; Burton, Ron; Small, David
Subject: FYI: Atlantic mackerel TAC decision signed - draft lines
Attachments: ML_Mackerel_TAC.docx

Importance: High

HQ advised that the TAC decision on Mackerel has now been signed by the Minister.

HQ will be issuing an advisory to harvesters and post the decision to the website.

Attached media lines are in approvals—currently at DG level with Adam Burns.

Because the TAC is lower than requested by NL interests, I expect there will be media interest. HQ leads and Adam Burns is spokes.

2 Key Messages:

- The 2017 Total Allowable Catch for the commercial fishery is set at 10,000 tonnes under a one-year management plan. This increase recognizes both the projected increases in the biomass over the coming year and the commitment to address unreported landings in the fishery.

- The established harvest level allows for a greater than 75% probability that the stock biomass will continue to increase at the established harvest level. This corresponds to a high probability of growth and reflects the Department's commitment to the Precautionary Approach. Specifically, with commercial TAC of 10,000 tonnes [redacted] taking into account improved catch monitoring in the fishery.

Jan

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Malko, Carol

From: Ryan, Sandra-Lee
Sent: July-27-17 8:19 AM
To: Baldwin, Jennifer; French, Christopher; Iacovitti, Michelle; Kaleta, Michelle; Lewis, Valerie
Cc: Banville, Pierrette; Bilmer, Angela; Butcher, Ashley; D'Angelo, Louise-Anne; Lemay, Jason; Longtin, Jean; Malko, Carol; Marroquin, René; Wallace, Dorothy
Subject: 2017-045-00376 // 2017 atlantic Mackerel management measures

Good morning,

Please note the above mentioned docket has been approved by the Minister. The original is in your folder in DMO for final processing/ to close.

Thank you,

Sandra Ryan
Correspondence Officer | Agente de correspondance
Deputy Minister's Office | Cabinet de la sous-ministre
Fisheries and Oceans Canada | Pêches et Océans Canada
Telephone | Téléphone (613) 991-0384

From: Ryan, Sandra-Lee
Sent: May-12-17 11:28 AM
To: Piché, Ashley; McConnery, Roxanne; Chin, Melanie; Baldwin, Jennifer; French, Christopher; Iacovitti, Michelle; Kaleta Michelle; Lewis, Valerie; Richter, Julie
Cc: St. Pierre, Catherine; Trudeau, Miriam; Banville, Pierrette; Bilmer, Angela; Butcher, Ashley; D'Angelo, Louise-Anne; Lemay, Jason; Longtin, Jean; Malko, Carol; Marroquin, René; Wallace, Dorothy
Subject: 2017-045-00376 // 2017 atlantic Mackerel management measures

Good morning,

Please note the above mentioned docket has been approved by the Associate DM and will be HD to MINO for approval.

Thank you,

Sandra Ryan
Correspondence Officer | Agente de correspondance
Deputy Minister's Office | Cabinet de la sous-ministre
Fisheries and Oceans Canada | Pêches et Océans Canada
Telephone | Téléphone (613) 991-0384

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Krohn, Martha

From: Krohn, Martha
Sent: July-27-17 12:10 PM
To: Simon, Patrice (Ottawa); Nadeau, Simon
Cc: Lacroix, Marc-André; Thompson, Susan; Marentette, Julie
Subject: RE: Atlantic Mackerel
Attachments: ML_Mackerel_TAC_JMeditsdocx.docx; Atlantic Mackerel 101 March 28 2017.docx

Categories: Red Category

Hi Patrice,
Please find attached some information provided by Julie. Thanks Julie!
We heard from EFM that the memo has been signed, so not sure where that leaves us with this piece!
Thanks,
Martha

From: Simon, Patrice (Ottawa)
Sent: July-26-17 6:07 PM
To: Nadeau, Simon
Cc: Krohn, Martha; Lacroix, Marc-André; Thompson, Susan
Subject: FW: Atlantic Mackerel

Simon,
Can we work on some lines for the science side on this. I expect that the official request will come soon. Patrice

From: McPherson, Arran
Sent: Wednesday, July 26, 2017 5:02 PM
To: Simon, Patrice (Ottawa) <Patrice.Simon@dfo-mpo.gc.ca>
Cc: White, Andrea <Andrea.White@dfo-mpo.gc.ca>
Subject: FW: Atlantic Mackerel

Hi Patrice, I think that the region had a deck ready for a tech briefing at one point so hopefully, those can be turned into some lines if not already done. Arran

From: Trudeau, Miriam
Sent: Wednesday, July 26, 2017 4:59 PM
To: Burns, Adam <Adam.Burns@dfo-mpo.gc.ca>; Lapointe, Sylvie <Sylvie.Lapointe@dfo-mpo.gc.ca>; Hubley , Marian <Marian.Hubley@dfo-mpo.gc.ca>; McPherson, Arran <Arran.McPherson@dfo-mpo.gc.ca>
Cc: French, Christopher <Christopher.French@dfo-mpo.gc.ca>; White, Andrea <Andrea.White@dfo-mpo.gc.ca>; Quinn, Caroline <Caroline.Quinn@dfo-mpo.gc.ca>; Butcher, Ashley <Ashley.Butcher@dfo-mpo.gc.ca>; Hopkins, Lillian <Lillian.Hopkins@dfo-mpo.gc.ca>; Malko, Carol <Carol.Malko@dfo-mpo.gc.ca>; Patrick, Lindsey <Lindsey.Patrick@dfo-mpo.gc.ca>
Subject: Atlantic Mackerel

Hello:

MINO has indicated that the Minister will be signing this docket. Could the Department be prepared with lines regarding management measures and science in case there are any concerns/questions?

Document Released Under the Access to Information Act / Document divulgué en vertu de la Loi sur l'accès à l'information.

I do not yet have the physical signed docket but MINO wanted to flag this information urgently. I have attached an electronic copy of the docket that was signed by the Associate and went into MINO.

Thanks,

AB

Miriam Trudeau
A/Director, Departmental Liaison
Directrice / intérimaire, Liaison ministériel

Fisheries and Oceans Canada | Pêches et Océans Canada
200 Kent Street | 200, rue Kent | 15N114
Ottawa, Canada K1A 0E6
(613) 947-4557 | miriam.trudeau@dfo-mpo.gc.ca

Pages 3652 to / à 3653
are duplicates of
sont des duplicatas des
pages 3549 to / à 3550

Pages 3654 to / à 3658

are duplicates of

sont des duplicatas des

pages 2184 to / à 2188

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s.16(2)
s.19(1)

Krohn, Martha

From: Smith, Andrew (IML)
Sent: July-28-17 3:53 PM
To: Krohn, Martha
Cc: Castonguay, Martin
Subject: RE: Atlantic Mackerel

Categories: Red Category

Hello Martha,

Thank you for getting back to me [redacted] I'm still playing catch-up as I only got this file in June so a lot of what I said is going to be redundant and/or has already been discussed at great length. A lot of folks here are in the field or on vacation at the moment and so the fastest source of information that I have is what I can find published on the internet (Proceedings, Assessments etc.). [redacted]

Thank you also for addressing each of my questions/points. I really am interested in the process of deciding the TAC, from landings all the way to the signing of the document. Both you and Julie have been very helpful in this.

I was not aware of the review in the fall or that the TAC would be revisited but I think for any fishery it is a good idea. Thank you for keeping me in the loop. I'm not sure I am in all of the GC or Quebec systems yet, so that might explain things.

FYI, I'll be in Blanc Sablon all next week but if you need to reach me for whatever reason my cell is [redacted]

[redacted]

Best regards,

Andrew

> **From:** Krohn, Martha
> **Sent:** Friday, July 28, 2017 3:25 PM
> **To:** Smith, Andrew (IML); Castonguay, Martin; Lambert, Yvan
> **Cc:** Marentette, Julie; Simon, Patrice (Ottawa); Doniol-Valcroze, Thomas; de Lafontaine, Yves; van Beveren, Elisabeth
> **Subject:** RE: Atlantic Mackerel
>
> Hello Andrew,
>
> Thanks very much for sharing your thoughts on the memo outlined below. The Precautionary Approach and the interpretation of probability in stock projection were discussed earlier this year when the memo was drafted.
>
> To give some context here to the process, EFM is the primary sector that develops TAC decision memos, although many levels of Science provide reviews and input on these memos prior to their submission, in

s.19(1) s.21(1)(b) Document Released Under the Access to Information Act / Document divulgué en vertu de la Loi sur l'accès à l'information

particular the Science Advice section. As the memo is now signed, further input is not possible and the memo is being shared for your records.

For Mackerel, the TAC will be revisited next year, and this process will require a new memo. Also, you may be aware that EFM will be reviewing the Mackerel fishery in the Fall once the fishery reaches about 50% of its TAC – at which point EFM may seek Science views.

In response to your specific concerns:

Page 1/38, Paragraph 2, line 6: " ...critical zone (approximately 50% of the Limit Reference Point)"

- The projected current stock biomass (2017) was used (48,283 t).

Page 1/38, Paragraph 6, line 6: " " should read or something similar.

- We agree, 'roughly' might be a more clear term. The Science Advice section describes this with greater precision –

Julie and I are both happy to discuss further.

Martha

Martha Krohn

National Manager, Fish Population Science
Fisheries and Oceans Canada / Government of Canada
martha.krohn@dfo-mpo.gc.ca/ Tel: 613-998-4234

Office # 12E245

Sciences des populations halieutiques
Pêches et Océans Canada / Gouvernement du Canada
martha.krohn@dfo-mpo.gc.ca / Tél. : 613-998-4234

Martha Krohn
Government of Canada Gouvernement du Canada

Canada

s.19(1)
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s.21(1)(b)

From: Smith, Andrew (IML)
Sent: July-28-17 10:40 AM
To: Krohn, Martha; Castonguay, Martin; Lambert, Yvan
Cc: Marentette, Julie; Simon, Patrice (Ottawa); Doniol-Valcroze, Thomas; de Lafontaine, Yves; van Beveren, Elisabeth
Subject: RE: Atlantic Mackerel

Bonjour Mme. Krohn,

Merci pour l'information. Je suis content d'être partie de l'équipe maquereau à l'IML. C'est peut-être trop tard mais j'ai remarqué des petites erreurs dans le document que vous nous avez envoyé qui affectent l'interprétation des données.

Page 1/38, Paragraph 2, line 6:
" ...critical zone (approximately 50% of the Limit Reference Point)" should read: "approximately 40%" as outlined on page 33/38 of the pdf you sent. (Estimated stock abundance of 40 000t in 2016 divided by LRP of 103 000t = ~40%).

Page 1/38, Paragraph 6, line 6:
[redacted] should read [redacted] or something similar. There is error around these estimates, it could be slightly higher, but it could also be slightly lower, but saying [redacted] is incorrect.

[redacted]

[redacted] I just want the language and objectives to be clear and in line with the above stated policies on the PA. I look forward to meeting you and your colleagues in the future.

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Don't hesitate to contact me,

Best regards,

Andrew

Andrew Smith, Ph.D.
Aquatic Sciences Biologist/
Biologiste Sciences Aquatiques (BI-03)
Institut Maurice-Lamontagne
Pêches et Océans Canada / Fisheries and Oceans Canada
850 route de la mer, C.P. 1000,
Mont-Joli, Québec,
Canada G5H 3Z4
Tel 1 418 775 0665
Fax 1 418 775 0740
Andrew.D.Smith@dfo-mpo.gc.ca

From: Krohn, Martha
Sent: Thursday, July 27, 2017 5:07 PM
To: Castonguay, Martin; Lambert, Yvan
Cc: Marentette, Julie; Smith, Andrew (IML); Simon, Patrice (Ottawa); Doniol-Valcroze, Thomas; de Lafontaine, Yves
Subject: FW: Atlantic Mackerel

From: Krohn, Martha
Sent: July-27-17 5:05 PM
To: Castonguay, Martin
Cc: Marentette, Julie; Smith, Andrew (IML); Simon, Patrice (Ottawa); Doniol-Valcroze, Thomas; de Lafontaine, Yves
Subject: FW: Atlantic Mackerel

Bonjour Martin et Yvan,
Selon l'aménagement, la note de service a été signé aujourd'hui par le ministre avec un TAC de 10 000 comme discuté au mois de mai.
(La note ci-joint n'est pas celle avec la signature du ministre). Quand on le reçoit, on va vous l'envoyer.
Merci pour tous la bonne travail et cooperation de l'équipe maquereau!
Martha

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Fagan, Ashley

From: Fagan, Ashley
Sent: July-28-17 1:26 PM
To: NCR Multimedia RCN (DFO/MPO)
Cc: Jackson, Ashley; Quirion, Stephanie; NCR Multimedia RCN (DFO/MPO); Adam, Megan; Bell, Karin
Subject: Re: Atlantic mackerel TAC decision signed - Notice that fishe decision will come

Yes, just heard on this. Now expected for Monday.

Sent from my BlackBerry 10 smartphone on the Rogers network.

From: NCR Multimedia RCN (DFO/MPO)
Sent: Friday, July 28, 2017 1:25 PM
To: Fagan, Ashley
Cc: Jackson, Ashley; Quirion, Stephanie; NCR Multimedia RCN (DFO/MPO); Adam, Megan; Bell, Karin
Subject: RE: Atlantic mackerel TAC decision signed - Notice that fishe decision will come

Hi Ashley,

Any news re. the Web posting of the Atlantic mackerel management decision?

Jocelyn

From: Fagan, Ashley
Sent: July-27-17 12:24 PM
To: Quirion, Stephanie; NCR Multimedia RCN (DFO/MPO); Adam, Megan; Bell, Karin
Cc: Jackson, Ashley
Subject: RE: Atlantic mackerel TAC decision signed - Notice that fishe decision will come

They do a notice to fish harvesters via email. We'll just have to post the decision information.

Jenness Cawthray is the program lead on this, the request will come from her.

From: Quirion, Stephanie
Sent: July-27-17 12:22 PM
To: NCR Multimedia RCN (DFO/MPO); Adam, Megan; Bell, Karin
Cc: Fagan, Ashley
Subject: FW: Atlantic mackerel TAC decision signed - Notice that fishe decision will come
Importance: High

FYI and action tomorrow

Not sure what Ashley means re: advisory, not sure if media product or just email notice to harvesters, but website and hub page(s) will need adjusting with the decision.

S

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From: Fagan, Ashley
Sent: 2017–July-27 12:19 PM
To: Woodford, Jan; Nielsen, Ingrid; Quirion, Stephanie; Hubley , Marian
Cc: Jackson, Ashley; Craig, Mark; LeBreton, Ginette; Stanek, Frank
Subject: Atlantic mackerel TAC decision signed
Importance: High

Hi all, just received word that the TAC decision on Mackerel has now been signed by the Minister.

NHQ will be issuing an advisory to harvesters and we'll post the decision to the website.

Heads up to web folks. Posting will likely be tomorrow.

Attached media lines are in approvals—urgently seeking DG level/Adam Burn's approval.

Jan--Heads up for NFLD region—I have heard that the TAC is significantly lower is significantly lower than what was requested/hoped for: 10,000 t allocated but 36,000 t was asked for). Just wanted to make sure you were aware as this might generate media interest in your region.

Ashley

Ashley Fagan
Senior Communications Advisor | Conseillère principale en communications
Fisheries and Oceans Canada | Pêches et Océans Canada
ashley.fagan@dfo-mpo.gc.ca
613-990-9415

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Cormier, Mélanie

De: Cawthray, Jenness
Envoyé: 28 juillet 2017 07:58
À: Gaudet, Mario
Cc: Marentette, Julie; Lester, Brian; Dunne, Erin; Waters, Christa; Mallet, Pierre; Rivierre, Antoine
Objet: RE: Materials for Mackerel TAC

Thanks Mario. Good points. Will include!

From: Gaudet, Mario
Sent: July-27-17 3:24 PM
To: Cawthray, Jenness
Cc: Marentette, Julie; Lester, Brian; Dunne, Erin; Waters, Christa; Mallet, Pierre; Rivierre, Antoine
Subject: RE: Materials for Mackerel TAC

Hi Jenness,

In the DFO web site announcement attachment...
I would add under the section :Management Measures
DFO has implemented tools to improve monitoring of the fishery (example: Gulf: 100% hail-in and 25% DMP)

Also, I would keep the sharing arrangement section if it was indicated in previous years...if not, you could remove.
My suggestion:
You could always mention that "The Department will hold a conference call with members of AMAC in the coming weeks to provide an update of the current fishing season"...

Mario

Mario Gaudet

Acting Senior Regional Fisheries and Aquaculture Management Officer
Fisheries and Oceans Canada / Government of Canada
mario.gaudet@dfo-mpo.gc.ca / Tel: 506 851-3526

Agent régional principal par intérim, Gestion des Pêches et de l'Aquaculture
Pêches et Océans Canada / Gouvernement du Canada
mario.gaudet@dfo-mpo.gc.ca / Tel: 506 851-3526

From: Cawthray, Jenness
Sent: July-27-17 4:02 PM
To: Dunne, Erin; Waters, Christa; Mallet, Pierre; Gaudet, Mario; Rivierre, Antoine
Cc: Marentette, Julie; Lester, Brian
Subject: Materials for Mackerel TAC
Importance: High

Hi Everyone,
Here are all the draft materials and draft comm lines for the TAC announcement. Please note that TAC will be announced once we have finalized the documents. It would be appreciated if you could review the website material and notice as soon as possible and let me know if you have any concerns.

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- Website
- Notice to AMAC
- Comm lines
- Mackerel landings

Do you have any concerns that I removed the sharing arrangements section from the TAC or do you think this will raise alarm bells from industry.
Thanks!

Jenness Cawthray
Senior Fisheries and Aquaculture Management Officer |
Agent principal, Gestion des pêches et de l'aquaculture
Fisheries and Oceans | Pêches et océans
200 rue Kent Street - 13S013 Ottawa, ON, K1A 0E6
Jenness.Cawthray@dfo-mpo.gc.ca
Telephone | Téléphone (613) 998-1524
Facsimile | Télécopieur (613) 990-7051
Government of Canada | Gouvernement du Canada

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Cawthray, Jenness

From: Waters, Christa
Sent: July-28-17 6:41 AM
To: Cawthray, Jenness
Subject: RE: Materials for Mackerel TAC

Looks good to me Jenness. The season starts in April in Maritimes (VO in place).
Christa

Christa Waters
Regional Senior Fisheries Management Advisor
Resource Management | Gestion des Pêches
Maritimes Region | Région des Maritimes
Telephone | Téléphone 902-293-6541

From: Cawthray, Jenness
Sent: July-27-17 4:02 PM
To: Dunne, Erin; Waters, Christa; Mallet, Pierre; Gaudet, Mario; Rivierre, Antoine
Cc: Marentette, Julie; Lester, Brian
Subject: Materials for Mackerel TAC
Importance: High

Hi Everyone,
Here are all the draft materials and draft comm lines for the TAC announcement. Please note that TAC will be announced once we have finalized the documents. It would be appreciated if you could review the website material and notice as soon as possible and let me know if you have any concerns.

- Website
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- Mackerel landings

Do you have any concerns that I removed the sharing arrangements section from the TAC or do you think this will raise alarm bells from industry.
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Jenness Cawthray
Senior Fisheries and Aquaculture Management Officer |
Agent principal, Gestion des pêches et de l'aquaculture
Fisheries and Oceans | Pêches et océans
200 rue Kent Street - 13S013 Ottawa, ON, K1A 0E6
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Lubar, John

From: Dunne, Erin
Sent: July-28-17 9:52 AM
To: Lubar, John
Subject: RE: Mackerel

Wasn't increased enough, didn't listen to harvesters about abundance

---

From: Lubar, John
Sent: July-28-17 9:49 AM
To: Dunne, Erin
Subject: RE: Mackerel

Erin, the RDG alluded to the interest Ottawa would have, yesterday during the RMC call. Will the negative reaction be because the TAC was increased (by 2000 MT) at all or because people think it was not increased enough? The media lines circulated by Jan Woodford yesterday indicate the latter (i.e. industry expected more).

John V. Lubar

Area Director
Southern, Western and Straits
Fisheries and Oceans Canada

1 Regent Square, Corner Brook NL A2H 7K6
Tel. (709) 637-4333
Fax (709) 637-4445

Directeur de secteur
Sud, Ouest, et Détroit
Pêches et Océans Canada

1, Carré Regent, Corner Brook, T-N-L A2H 7K6
Tél. (709) 637-4333
Téléc. (709) 637-4445

john.lubar@dfo-mpo.gc.ca

From: Dunne, Erin
Sent: July-28-17 9:41 AM
To: Lubar, John
Subject: RE: Mackerel

Thank you, the RDG is looking for an update, the mackerel TAC announcement likely will receive negative reaction

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From: Lubar, John
Sent: July-28-17 9:38 AM
To: Dunne, Erin
Subject: RE: Mackerel

Erin, While at the Town wharf in Woody Point, Bonne Bay with my sailboat on 18-19 July, I observed numerous women, men and children angling and catching mackerel from the wharf. I was unable to quantify these recreational landings. A minke whale made numerous runs past the wharf in both directions, presumably seeking the same mackerel.

John V. Lubar

Area Director
Southern, Western and Straits
Fisheries and Oceans Canada

1 Regent Square, Corner Brook NL A2H 7K6
Tel. (709) 637-4333
Fax (709) 637-4445

Directeur de secteur
Sud, Ouest, et Détroit
Pêches et Océans Canada

1, Carré Regent, Corner Brook, T-N-L A2H 7K6
Tél. (709) 637-4333
Téléc. (709) 637-4445

john.lubar@dfo-mpo.gc.ca

From: Dunne, Erin
Sent: July-28-17 9:17 AM
To: Hawkins, Laurie; Small, David; Lubar, John; Burton, Ron
Subject: Mackerel
Importance: High

Good morning, I have been asked to provide information on mackerel . Please do forward any details on sightings and signs of mackerel in your area by early afternoon.

Thank you, Erin

Sent from my BlackBerry 10 smartphone on the Bell network.

Document Released Under the Access to Information Act / Document divulgué en vertu de la Loi sur l'accès à l'information.

Lester, Brian

From: Bell, Patricia
Sent: 2017–July-31 10:41 AM
To: Lester, Brian
Cc: Smith, Kathleen
Subject: RE: Mackerel ML

s.19(1)

Thanks

From: Lester, Brian
Sent: July-31-17 10:40 AM
To: Bell, Patricia
Cc: Smith, Kathleen
Subject: Re: Mackerel ML

Yes please change to early August. Thanks

Sent from my BlackBerry 10 smartphone on the Rogers network.

From: Bell, Patricia
Sent: Monday, July 31, 2017 10:38 AM
To: Lester, Brian
Cc: Smith, Kathleen
Subject: RE: Mackerel ML

Hi Brian,

Can you tell me when the Mackerel TAC will be announced?

I was thinking we should change the first line in the ISSUE section to August... currently it says On July XX (TBC) DFO will announce...

Pbell

From: Bell, Patricia
Sent: July-31-17 10:30 AM
To: Lester, Brian
Cc: Smith, Kathleen
Subject: Mackerel ML

Hi Brian,

[redacted] FYI I have taken the Red Docket Media Lines with the changes indicated by you/Adam.

I am updating them and will continue sending them through Approvals.

Will let you know if any significant changes are requested up the line.

Thanks

Pbell
DFO Comms
613 301-1997

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Lubar, John

From: Dunne, Erin
Sent: August-02-17 3:15 PM
To: Hawkins, Laurie
Cc: Lubar, John
Subject: RE: mackerel

Friday, August 4 at 0600

From: Hawkins, Laurie
Sent: August-02-17 2:49 PM
To: Dunne, Erin
Cc: Lubar, John
Subject: mackerel

Mackerel conditions are released...please advise if/when we can open in 4R

Laurie Hawkins
Area Chief, Resource Management/ Chef de secteur, Gestion de la ressource
Southern, Western and Straits/ Sud, Ouest, et Détroit
1 Regent Square Corner Brook, NL A2H 7K6/ 1, Carré Regent/ Corner Brook, T-N-L A2H 7K6
Tel./ Tél. (709) 637-4310 Fax./ Téléc. (709) 637-4476

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Smith, Kathleen

From: Bell, Patricia
Sent: August-03-17 10:41 AM
To: Lester, Brian
Cc: Smith, Kathleen
Subject: RE: Mackerel ML

Thanks Brian

Will add that to the ML and continue sending through Red Docket Approvals.

Keep me posted please on the announcement date

Thanks

Pbell

From: Lester, Brian
Sent: August-03-17 10:38 AM
To: Bell, Patricia
Cc: Smith, Kathleen
Subject: RE: Mackerel ML

Hi Patricia: It's the media lines you want nothing else right?

For the media line I would suggest:

The Department delayed announcement of the TAC for this year in order to evaluate the effectiveness of the new catch monitoring instituted for the fishery in the southern Gulf this year (100% hail of catch with 25% dockside monitoring). This new system provides more real time harvest information and it should result in less undeclared catch.

We could announce tomorrow or early next week. I will discuss with Adam and let you know.

From: Bell, Patricia
Sent: 2017–August-03 10:32 AM
To: Lester, Brian
Cc: Smith, Kathleen
Subject: RE: Mackerel ML

Hi Brian,

Sylvie Lapointe has a question re: the Red Docket Approval for ML Mackerel.

She says we may get asked why it has taken so long for the announcement to be made on TAC...with the fisheries already underway

Do you have an answer to that question?

Please let me know

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s.19(1)

Thanks

Pbell
DFO Comms
613 301-1997

From: Lester, Brian
Sent: July-31-17 10:40 AM
To: Bell, Patricia
Cc: Smith, Kathleen
Subject: Re: Mackerel ML

Yes please change to early August. Thanks

Sent from my BlackBerry 10 smartphone on the Rogers network.

From: Bell, Patricia
Sent: Monday, July 31, 2017 10:38 AM
To: Lester, Brian
Cc: Smith, Kathleen
Subject: RE: Mackerel ML

Hi Brian,

Can you tell me when the Mackerel TAC will be announced?

I was thinking we should change the first line in the ISSUE section to August... currently it says On July XX (TBC) DFO will announce...

Pbell

From: Bell, Patricia
Sent: July-31-17 10:30 AM
To: Lester, Brian
Cc: Smith, Kathleen
Subject: Mackerel ML

Hi Brian,

[redacted] FYI I have taken the Red Docket Media Lines with the changes indicated by you/Adam.

I am updating them and will continue sending them through Approvals.

Will let you know if any significant changes are requested up the line.

Thanks

Pbell
DFO Comms

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Quirion, Stephanie

From: Bell, Patricia
Sent: 2017–August-03 2:08 PM
To: Quirion, Stephanie
Subject: FW: Mackerel & FFMC
Attachments: ML_Mackerel_TAC.docx

Clearly good minds think alike!!

Thanks Stephanie for sending your reminder to MINO on FFMC!

Pbell

From: Bell, Patricia
Sent: August-03-17 1:25 PM
To: Nielsen, Ingrid; Smith, Kathleen
Subject: Mackerel & FFMC

Hi Ingrid & KS,

the Mackerel TAC decision will likely be going out on Tuesday.

MLs are with Anne Lamar's office and I hope to get them to MINO later this afternoon....tomorrow morning at the latest.

I have attached them with changes made to date... for reference sake.

Also, now that the NARW technical briefing is over.. would it be possible to ask MINO about the Red Docket FFMC (Comms Rollout & ML)?...it has been in MINO since earlier this week (obviously they were tied up with whales...but maybe now?)

I am hoping we can initial the Social Media plan FFMC by tomorrow morning (Fri)....before the long weekend.

Please let me know

Thanks

Pbell
DFO Comms
613 301-1997

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Malko, Carol

From: ComApproval / Approbation (DFO/MPO)
Sent: August-04-17 11:20 AM
To: Perron, Heloise; Nielsen, Ingrid; Quirion, Stephanie
Cc: Bilmer, Angela; Butcher, Ashley; Hopkins, Lillian; Malko, Carol; Patrick, Lindsey; Quinn, Caroline; Smith, Kathleen; Bell, Patricia; Beamish, Kayla
Subject: SENT TO DM: 233/17 HQ-ML : ATLANTIC MACKEREL TOTAL ALLOWABLE CATCH 2017

ATLANTIC MACKEREL TOTAL ALLOWABLE CATCH 2017
MEDIA LINES



ML_Mackerel_TA...

Thanks,

Elise Grundy
Communications Branch/ Direction générale des communications
613-993-0996 | facsimile/télécopieur 613-993-8277
elise.grundy@dfo-mpo.gc.ca
Fisheries and Oceans Canada | 200 Kent St. Ottawa, ON K1A 0E6
Pêches et Océans Canada | 200, rue Kent Ottawa, ON K1A OE6
Government of Canada | Gouvernement du Canada

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DRAFT

MEDIA LINES

Atlantic Mackerel Total Allowable Catch 2017

Issue

On August XX (TBC), Fisheries and Oceans Canada (DFO) will announce the 2017 Total Allowable Catch (TAC) decision for the Atlantic Mackerel fishery. The TAC for the commercial catch in 2017 will be set at 10,000 tonnes, which is an increase from the 2016 TAC of 8,000 tonnes. Given increased reporting requirements, it is anticipated that undeclared/unreported catches will be significantly reduced this year. The Department can expect media calls on the decision, as industry's expectations were for a significant TAC increase; however their request was not supported by the science advice (which the Department has followed). We would expect that there will also be negative reaction from the Ecology Action Center and some Indigenous groups that suggested a reduced harvest level given the stock is assessed to be in the critical zone.

The Atlantic Mackerel Advisory Committee meeting took place on March 30, 2017 in Halifax, Nova Scotia. DFO chaired the meeting and participants included upwards of 60 stakeholders, including Indigenous groups, harvesters, processors, environmental non-government organizations, the four Atlantic Provinces, and Quebec.

Judicial Review : On November 10, 2016, Fisheries and Oceans Canada received a judicial review application filed in the Federal Court by Barry Group Inc., Pride Ventures Inc., 67108 Newfoundland & Labrador Inc., and Gauvin and Noel Compagnie Inc. The Applicants are challenging the Minister's decisions in relation to the closure of the Atlantic Mackerel Fishery in all areas in October 2016. The Applicants submit that the decisions effectively prevented the over 65' fleet (to which they belong) to harvest their share of the total allowable catch etc. The case has not yet been heard.

Media lines

- The 2017 Total Allowable Catch for the commercial fishery is set at 10,000 tonnes under a one-year management plan. This increase recognizes both the projected increases in the biomass over the coming year and the commitment to address unreported landings in the fishery.

- Fisheries management decisions for all stocks, including Atlantic mackerel include consideration of the best available science as well as input from Indigenous groups, harvesters, processors, environmental non-government organizations and the provinces.

- The Department undertook a new and detailed stock assessment for Atlantic mackerel this spring. This new assessment was discussed with members of the Atlantic Mackerel Advisory Committee on March 30, 2017 and input from stakeholders played an important role in the Department's TAC decision.

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- While the science assessment has shown some signs of slight improvement in the stock, the stock assessment indicates that the stock remains in the critical zone under DFO's Precautionary Approach framework.

- The established harvest level allows for a greater than 75% probability that the stock biomass will continue to increase at the established harvest level. This corresponds to a high probability of growth and reflects the Department's commitment to the Precautionary Approach. With a commercial TAC of 10,000 tonnes and estimates of undeclared landings from other sources (e.g. bait and recreational fishery), there would be a greater than a 75% probability of the biomass increasing over the next two years.

- Fisheries and Oceans Canada is committed to balancing economic opportunity and financial stability of the Atlantic mackerel fishery while promoting the sustainability of this resource.

- The Department has established a one-year TAC in line with the industry request to revisit the harvest level at the end of the 2017 fishery.

If pressed on how the decision was made:

- Management decisions for this fishery consider long-term conservation and sustainability of the stock and take into account the best available science, the Department's management plan, and views expressed by stakeholders during consultations.

- Industry views are that the overall biomass is significantly larger than the science would indicate based on what they experienced in the 2016 fishery.

- The Department has initiated a DFO and industry rebuilding plan working group for this stock that will meet over the coming year to develop a plan for consideration by the Atlantic Mackerel Advisory Committee. This will support rebuilding the stock into the Healthy Zone of the Precautionary Approach Framework

If pressed on why TAC was announced after fishery was underway:

- The Department delayed announcement of the TAC for this year in order to evaluate the effectiveness of the new catch monitoring instituted for the fishery in the southern Gulf (100% hail of catch with 25% dockside monitoring). This new system provides more real-time harvest information and it should result in less undeclared catch.

If pressed on judicial review:

- The Department will not comment on this matter, as it is currently before the Court.

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Spokesperson: Adam Burns

Program Contact: Brian Lester, Adam Burns

Communications Contact: Kayla Beamish

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Smith, Kathleen

From: Bell, Patricia
Sent: August-04-17 11:04 AM
To: Lester, Brian
Cc: Smith, Kathleen
Subject: RE: Question - Mackerel

Sounds good... it's in DM's office now

From: Lester, Brian
Sent: August-04-17 10:57 AM
To: Bell, Patricia
Cc: Smith, Kathleen
Subject: RE: Question - Mackerel

OK thanks. I hope to be able to announce the TAC early next week.

B

From: Bell, Patricia
Sent: 2017–August-04 10:50 AM
To: Lester, Brian
Cc: Smith, Kathleen
Subject: RE: Question - Mackerel

Thanks Brian

Will let you know once MINO has the Red Docket

Pbell

From: Lester, Brian
Sent: August-04-17 10:27 AM
To: Bell, Patricia
Cc: Smith, Kathleen
Subject: RE: Question - Mackerel

Yep sounds good.

From: Bell, Patricia
Sent: 2017–August-04 10:26 AM
To: Lester, Brian
Cc: Smith, Kathleen
Subject: RE: Question - Mackerel

Thanks Brian

I am going to add this to the Issue section for the ML Mackerel. Good with you? Pbell

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Judicial Review : On November 10, 2016, Fisheries and Oceans Canada received a judicial review application filed in the Federal Court by Barry Group Inc., Pride Ventures Inc., 67108 Newfoundland & Labrador Inc., and Gauvin and Noel Compagnie Inc. The Applicants are challenging the Minister's decisions in relation to the closure of the Atlantic Mackerel Fishery in all areas in October 2016. The Applicants submit that the decisions effectively prevented the over 65' fleet (to which they belong) to harvest their share of the total allowable catch etc. The case has not yet been heard.

From: Lester, Brian
Sent: August-04-17 10:24 AM
To: Bell, Patricia
Cc: Smith, Kathleen
Subject: RE: Question - Mackerel

Yes, same judicial review.

From: Bell, Patricia
Sent: 2017-August-04 10:13 AM
To: Lester, Brian
Cc: Smith, Kathleen
Subject: RE: Question - Mackerel

Hey Brian,

I found these MLs in 2016 products from November 2016 (attached)

Is this the judicial review mentioned in the current lines?

If so, I will add info to the Issue section.

Please let me know... hoping to get these ML to DM and then into MINO today

Thanks!

Pbell
DFO Comms
613 301-1997

From: Bell, Patricia
Sent: August-04-17 9:48 AM
To: Lester, Brian
Cc: Smith, Kathleen
Subject: Question - Mackerel

Hi Brian,

Just received the Mackerel Red Docket from Anne Lamar's office.

They had a few small changes... and are also asking What the Judicial Review is (If pressed on judicial review)

It only says that ...The Department will not comment on this matter, as it is currently before the Court.

There is nothing mentioned in the Issue section.. or in past ML about this review.

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Can you please send me a little info on what the review is about.

Thanks

Pbell
DFO Comms
613 301-1997

No information has been removed or severed from this page

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Malko, Carol

From: French, Christopher
Sent: August-08-17 11:21 AM
To: Trudeau, Miriam
Cc: Butcher, Ashley; Malko, Carol; Gibson, Andrea
Subject: FW: Atlantic Mackerel

Hi Min O,

Response: ***We were waiting for MinO to see Media lines which I believe they have received this AM. Notice is ready to go, just awaiting word from Comms.***

Chris

Chris French
A/Senior Advisor to the ADM, Fisheries and Harbour Management
Conseiller principal intérimaire auprès du SMA, Secteur de la gestion des pêches et des ports
Fisheries and Oceans Canada I Pêches et Océans Canada
christopher.french@dfo-mpo.gc.ca / Tel: 613-949-9028

From: Gibson, Andrea
Sent: 2017–August-08 10:57 AM
To: French, Christopher; Quenneville, Josée
Subject: RE: Atlantic Mackerel

Hello,
Here is the answer.
Andrea

We were waiting for MinO to see Media lines which I believe they have received this AM. Notice is ready to go, just awaiting word from Comms.

From: French, Christopher
Sent: August 8, 2017 10:54 AM
To: Gibson, Andrea; Quenneville, Josée
Subject: FW: Atlantic Mackerel

Hello,

Question from Min O.

Chris

Chris French
A/Senior Advisor to the ADM, Fisheries and Harbour Management
Conseiller principal intérimaire auprès du SMA, Secteur de la gestion des pêches et des ports
Fisheries and Oceans Canada I Pêches et Océans Canada
christopher.french@dfo-mpo.gc.ca / Tel: 613-949-9028

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From: Trudeau, Miriam
Sent: 2017–August-08 10:31 AM
To: French, Christopher
Cc: Butcher, Ashley; Malko, Carol; Patrick, Lindsey
Subject: RE: Atlantic Mackerel

Now that the Memo has been signed by the Minister, MINO is wondering when this will be made public to industry.

Can you please advise?

Thx,
CP

From: Trudeau, Miriam
Sent: Wednesday, July 26, 2017 4:59 PM
To: Burns, Adam <Adam.Burns@dfo-mpo.gc.ca>; Lapointe, Sylvie <Sylvie.Lapointe@dfo-mpo.gc.ca>; Hubley , Marian <Marian.Hubley@dfo-mpo.gc.ca>; McPherson, Arran <Arran.McPherson@dfo-mpo.gc.ca>
Cc: French, Christopher <Christopher.French@dfo-mpo.gc.ca>; White, Andrea <Andrea.White@dfo-mpo.gc.ca>; Quinn, Caroline <Caroline.Quinn@dfo-mpo.gc.ca>; Butcher, Ashley <Ashley.Butcher@dfo-mpo.gc.ca>; Hopkins, Lillian <Lillian.Hopkins@dfo-mpo.gc.ca>; Malko, Carol <Carol.Malko@dfo-mpo.gc.ca>; Patrick, Lindsey <Lindsey.Patrick@dfo-mpo.gc.ca>
Subject: Atlantic Mackerel

Hello:

MINO has indicated that the Minister will be signing this docket. Could the Department be prepared with lines regarding management measures and science in case there are any concerns/questions?

I do not yet have the physical signed docket but MINO wanted to flag this information urgently. I have attached an electronic copy of the docket that was signed by the Associate and went into MINO.

Thanks,

AB

Miriam Trudeau
A/Director, Departmental Liaison
Directrice / intérimaire, Liaison ministériel

Fisheries and Oceans Canada | Pêches et Océans Canada
200 Kent Street | 200, rue Kent | 15N114
Ottawa, Canada K1A 0E6
(613) 947-4557| miriam.trudeau@dfo-mpo.gc.ca

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Smith, Kathleen

From: Quirion, Stephanie
Sent: August-08-17 10:13 AM
To: Smith, Kathleen
Subject: FW: FOR APPROVAL: HQ-ML: ATLANTIC MACKEREL TOTAL ALLOWABLE CATCH 2017

Importance: High

Now with MINO

From: ComApproval / Approbation (DFO/MPO)
Sent: 2017–August-08 10:12 AM
To: Gareau, Laura; Lavigne, Kevin
Cc: Hughes, Vincent; Trudeau, Miriam; MacNeil, Vince; Perron, Heloise; Nielsen, Ingrid; Quirion, Stephanie; Bell, Patricia
Subject: FOR APPROVAL: HQ-ML: ATLANTIC MACKEREL TOTAL ALLOWABLE CATCH 2017
Importance: High

Hi Laura,

Please find attached media lines for your approval.

ATLANTIC MACKEREL TOTAL ALLOWABLE CATCH 2017
MEDIA LINES

ML_Mackerel_T...

Thanks,

Brad Stollery
Communications Branch/Direction générale des communications
bradley.stollery@dfo-mpo.gc.ca
Fisheries and Oceans Canada | 200 Kent St. Ottawa, ON K1A 0E6
Pêches et Océans Canada | 200, rue Kent Ottawa, ON K1A OE6
><((((º>

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Smith, Kathleen

From: Quirion, Stephanie
Sent: August-08-17 10:04 AM
To: ComApproval / Approbation (DFO/MPO)
Cc: Bell, Patricia; Smith, Kathleen
Subject: RE: SENT TO DM: 233/17 HQ-ML : ATLANTIC MACKEREL TOTAL ALLOWABLE CATCH 2017

Great. If no changes please send to MINO as soon as you get back.
CC Ingrid, Kathleen, Miriam Trudeau and I
Thx.

From: ComApproval / Approbation (DFO/MPO)
Sent: 2017–August-08 10:03 AM
To: Quirion, Stephanie
Cc: Bell, Patricia; Smith, Kathleen
Subject: RE: SENT TO DM: 233/17 HQ-ML : ATLANTIC MACKEREL TOTAL ALLOWABLE CATCH 2017

Oops, never mind, I just got an email saying it was approved. Gonna go run and get it now.

Brad

From: ComApproval / Approbation (DFO/MPO)
Sent: August-08-17 10:02 AM
To: Quirion, Stephanie
Cc: Bell, Patricia; Smith, Kathleen
Subject: RE: SENT TO DM: 233/17 HQ-ML : ATLANTIC MACKEREL TOTAL ALLOWABLE CATCH 2017

DM hasn't signed off yet, it's still in her office.

Brad

From: Quirion, Stephanie
Sent: August-08-17 10:00 AM
To: Smith, Kathleen
Cc: Bell, Patricia; ComApproval / Approbation (DFO/MPO)
Subject: FW: SENT TO DM: 233/17 HQ-ML : ATLANTIC MACKEREL TOTAL ALLOWABLE CATCH 2017

Looks like the lines on Mackerel TAC were sent to DMO on Friday... They have not made it to MINO yet.

Brad/Elise, can you check to see if DMO signed off?

S

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From: ComApproval / Approbation (DFO/MPO)
Sent: 2017–August-04 11:20 AM
To: Perron, Heloise; Nielsen, Ingrid; Quirion, Stephanie
Cc: Bilmer, Angela; Butcher, Ashley; Hopkins, Lillian; Malko, Carol; Patrick, Lindsey; Quinn, Caroline; Smith, Kathleen; Bell, Patricia; Beamish, Kayla
Subject: SENT TO DM: 233/17 HQ-ML : ATLANTIC MACKEREL TOTAL ALLOWABLE CATCH 2017

ATLANTIC MACKEREL TOTAL ALLOWABLE CATCH 2017
MEDIA LINES

<< File: ML_Mackerel_TAC.docx >>
Thanks,

Elise Grundy
Communications Branch/ Direction générale des communications
613-993-0996 | facsimile/télécopieur 613-993-8277
elise.grundy@dfo-mpo.gc.ca
Fisheries and Oceans Canada | 200 Kent St. Ottawa, ON K1A 0E6
Pêches et Océans Canada | 200, rue Kent Ottawa, ON K1A OE6
Government of Canada | Gouvernement du Canada

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Smith, Kathleen

From: ComApproval / Approbation (DFO/MPO)
Sent: August-08-17 9:56 AM
To: Smith, Kathleen
Subject: RE: Mackerel lines?

Hi Kathleen,

The mackerel media lines (docket 233/17) are with DM.

Brad

From: Smith, Kathleen
Sent: August-08-17 9:13 AM
To: ComApproval / Approbation (DFO/MPO); Jackson, Ashley
Subject: Mackerel lines?

Can you guys find out where Patricia's mackerel lines are in approvals? Ash, can you ask at the stand-up if I'm not there?
Tx

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Mallet, Pierre

From: Cawthray, Jenness
Sent: August-08-17 1:36 PM
To: Mallet, Pierre; Gaudet, Mario; Waters, Christa; Dunne, Erin; Rivierre, Antoine
Cc: Lester, Brian; Marentette, Julie
Subject: MECTS-#3810595-v3-AMAC_Notice_TAC_2017.docx
Attachments: MECTS-#3810595-v3-AMAC_Notice_TAC_2017.docx

Importance: High

Hello All!
The Comm lines are in the Minister's office and should be approved shortly. We plan on sending out the notice of TAC this afternoon.
Please take a look at this draft version, the French will be updated shortly.

Please note that we have included a call September 8th to discuss sharing arrangements for the fishery. Are they are concerns with the September date?
Also are there concerns or risk that 50% of TAC would be landed prior to this date?
Please provide comment ASAP.
Thanks!
Jenness

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Cawthray, Jenness

From: Smith, Kathleen
Sent: August-08-17 3:49 PM
To: Cawthray, Jenness; Lester, Brian
Cc: Payne, Matthew
Subject: FW: adjusted Mackerel lines

Hello,

Note below has been sent to MINO comms.

Will let you know what we hear back.
KS

From: ComApproval / Approbation (DFO/MPO)
Sent: August-08-17 3:11 PM
To: Gareau, Laura
Cc: Smith, Kathleen; Nielsen, Ingrid; Payne, Matthew
Subject: FW: adjusted Mackerel lines

Hi Laura,

Here are the adjusted Mackerel media lines. See comments below.

ML_Mackerel_T...

Brad Stollery
Communications Branch/Direction générale des communications
bradley.stollery@dfo-mpo.gc.ca
Fisheries and Oceans Canada | 200 Kent St. Ottawa, ON K1A 0E6
Pêches et Océans Canada | 200, rue Kent Ottawa, ON K1A OE6
><((((º>

From: Smith, Kathleen
Sent: August-08-17 3:07 PM
To: ComApproval / Approbation (DFO/MPO)
Cc: Nielsen, Ingrid; Payne, Matthew
Subject: adjusted Mackerel lines

MINO asked for these –left changed tracked for Laura.

PLs note its getting late in day to issue notice, program's sense is that might be better to go tomorrow morning.
K

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DRAFT

MEDIA LINES

Atlantic Mackerel Total Allowable Catch 2017

Issue

On August XX (TBC), Fisheries and Oceans Canada (DFO) will announce the 2017 Total Allowable Catch (TAC) decision for the Atlantic Mackerel fishery. The TAC for the commercial catch in 2017 will be set at 10,000 tonnes, which is an increase from the 2016 TAC of 8,000 tonnes. Given increased reporting requirements, it is anticipated that undeclared/unreported catches will be significantly reduced this year. The Department can expect media calls on the decision, as industry's expectations were for a significant TAC increase; however their request was not supported by the science advice (which the Department has followed). We would expect that there will also be negative reaction from the Ecology Action Center and some Indigenous groups that suggested a reduced harvest level given the stock is assessed to be in the critical zone.

The Atlantic Mackerel Advisory Committee meeting took place on March 30, 2017 in Halifax, Nova Scotia. DFO chaired the meeting and participants included upwards of 60 stakeholders, including Indigenous groups, harvesters, processors, environmental non-government organizations, the four Atlantic Provinces, and Quebec.

Judicial Review : On November 10, 2016, Fisheries and Oceans Canada received a judicial review application filed in the Federal Court by Barry Group Inc., Pride Ventures Inc., 67108 Newfoundland & Labrador Inc., and Gauvin and Noel Compagnie Inc. The Applicants are challenging the Minister's decisions in relation to the closure of the Atlantic Mackerel Fishery in all areas in October 2016. The Applicants submit that the decisions effectively prevented the over 65' fleet (to which they belong) to harvest their share of the total allowable catch etc. The case has not yet been heard.

Media lines

- The 2017 Total Allowable Catch for the commercial fishery is set at 10,000 tonnes under a one-year management plan. This increase recognizes both the projected increases in the biomass over the coming year and the commitment to address unreported landings in the fishery.

- Fisheries management decisions for all stocks, including Atlantic mackerel include consideration of the best available science as well as input from Indigenous groups, harvesters, processors, environmental non-government organizations and the provinces.

- The Department undertook a new and detailed stock assessment for Atlantic mackerel this spring. This new assessment included increased effort by science experts including additional monitoring and interaction with harvesters to improve the reliability and data included in the assessment.

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- This new assessment was discussed with members of the Atlantic Mackerel Advisory Committee (AMAC) on March 30, 2017 and input from stakeholders played an important role in the Department's TAC decision.

- While the science assessment has shown some signs of slight improvement in the stock, the stock assessment indicates that the stock remains in the critical zone under DFO's Precautionary Approach framework.

- Following discussion with AMAC increased reporting has been instituted including the introduction of 100% hail of catch with 25% dockside monitoring in the Gulf region. This new system provides more real-time harvest information and it should result in less undeclared catch.

- The established harvest level allows for a greater than 75% probability that the stock biomass will continue to increase at the established harvest level. This corresponds to a high probability of growth and reflects the Department's commitment to the Precautionary Approach. With a commercial TAC of 10,000 tonnes and estimates of undeclared landings from other sources (e.g. bait and recreational fishery), there would be a greater than a 75% probability of the biomass increasing over the next two years.

- Fisheries and Oceans Canada is committed to balancing economic opportunity and financial stability of the Atlantic mackerel fishery while promoting the sustainability of this resource.

- The Department has established a one-year TAC in line with the industry request to revisit the harvest level at the end of the 2017 fishery.

If pressed on how the decision was made:

- Management decisions for this fishery consider long-term conservation and sustainability of the stock and take into account the best available science, the Department's management plan, and views expressed by stakeholders during consultations.

- Industry views are that the overall biomass is significantly larger than the science would indicate based on what they experienced in the 2016 fishery.

- The Department has initiated a DFO and industry rebuilding plan working group for this stock that will meet over the coming year to develop a plan for consideration by the Atlantic Mackerel Advisory Committee. This will support rebuilding the stock into the Healthy Zone of the Precautionary Approach Framework

If pressed on why TAC was announced after fishery was underway:

- The Department delayed announcement of the TAC for this year in order to evaluate the effectiveness of the new catch monitoring instituted in the Gulf. ~~for the~~

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~~fishery in the southern Gulf (100% hail of catch with 25% dockside monitoring). This new system provides more real-time harvest information and it should result in less undeclared catch.~~

If pressed on judicial review:

- The Department will not comment on this matter, as it is currently before the Court.

Spokesperson: Adam Burns

Program Contact: Brian Lester, Adam Burns

Communications Contact: Kayla Beamish

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Hiltz, Jennifer

From: Waters, Christa
Sent: August-08-17 3:39 PM
To: Waters, Christa
Cc: Hiltz, Jennifer
Subject: FW: Maritimes Mackerel Advisory Committee March 23, 2017 - Record of Discussion
Attachments: MARMAC minutes March 2017 DRAFT_CLW.pdf

Hello again,
Sorry. With the attachment this time.
C

Christa Waters
Regional Senior Fisheries Management Advisor
Resource Management | Gestion des Pêches
Maritimes Region | Région des Maritimes
Telephone | Téléphone 902-293-6541

From: Waters, Christa
Sent: August-08-17 3:32 PM
To: Waters, Christa
Cc: Hiltz, Jennifer
Subject: Maritimes Mackerel Advisory Committee March 23, 2017 - Record of Discussion

Hello,

Attached is the draft Record of Discussion for our Regional mackerel meeting that was held on March 23, 2017 in Dartmouth. This was the regional meeting prior to the Atlantic wide mackerel meeting. Please have any comments, edits or additions to me by September 1, 2017. After that, I will send out a final copy.

Please also pay attention that I have spelt you name correctly and add an affiliation (i.e. licence holder, association) if I do not have one by your name.

In September, we will have a call and/or meeting to ensure we are making progress on the action items in the document.

Respectfully,

Christa

Christa Waters
Regional Senior Fisheries Management Advisor
Resource Management | Gestion des Pêches
Maritimes Region | Région des Maritimes
Fisheries and Oceans Canada | Pêches et Océans Canada
P.O. Box 1006 | C.P. 1006
Dartmouth, NS Canada B2Y 4A2 | Dartmouth, NÉ Canada B2Y 4A2
Christa.Waters@dfo-mpo.gc.ca

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Telephone | Téléphone 902-293-6541
Government of Canada | Gouvernement du Canada

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Record of Discussion

Maritimes Mackerel Advisory Committee Meeting
March 23, 2017, 13:00-16:00

Agenda Items and Corresponding Discussion Notes

	TOPIC	LEAD
1.	Introductions	Lead: Christa Waters
	Highlights/Outcome: • This meeting is the second annual meeting of the regional mackerel advisory committee. Our objective is to discuss and provide advice on matters relevant to the current management of mackerel fisheries in Maritimes Region and to prepare for the upcoming Atlantic Mackerel Advisory Committee meeting. • The expectation is that this meeting will be held prior to the Atlantic Mackerel Advisory Committee (AMAC) meeting bi-annually and/or as needed. The two main roles for this committee will be 1) to provide a forum to focus on regional fisheries issues and regional management measures; and 2) to prepare for AMAC through considering regional issues/perspectives and how they might feed into the Atlantic-wide discussions. For Action: None	
2.	Science Update	Lead: Thomas Doniol-Valcroze
	Highlights/Outcome: • Thomas reviewed the science assessment results from the framework and assessment that took place between January and March 2017. • Thomas noted the depleted state of the Atlantic mackerel stock, as indicated by the assessment. • A new assessment framework incorporated work completed to help address the issue of unreported catch, including the development of a model that incorporates a proxy for unreported bait catches by looking at the bait requirements of 3 major fisheries that use mackerel as bait (lobster, crab, and tuna). • Thomas reviewed the stock origins of various Atlantic mackerel populations. We know through recent studies that the Can/US mackerel are separate form European mackerel. There are current studies ongoing to look in detail on the difference between the two spawning contingents on this side of the Atlantic. • Christa advised that the science team has been missing biological samples from the Maritimes Region fisheries and requested everyone consider if they would be willing to assist Science. • An industry member asked about when mackerel spawn in the Bay of Fundy and throughout the Atlantic Provinces. • An industry member was appreciative of the clear, high quality presentation provided by Thomas. For Action: • Thomas to provide his presentation when it's approved for distribution. • All – Provide Christa with your name if willing to provide biological samples to science • Christa will facilitate communication between industry members in the Maritimes that will help with samples and DFO Science in Quebec.	
3.	**Update on Marine Mammal Update**	Lead: Alan Reeves

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	Highlights/Outcome: • Alan reviewed the Action Plan for the North Atlantic Right Whale in Canada: Fishery Interactions and the changes to the USA market requirements focused on Marine Mammals. • Alan talked about the development of a questionnaire on gear configuration to collect baseline information on mackerel gear configuration. This has been done for other fisheries in the Region. • DFO wants to ensure that any suggested measures to reduce marine mammal interactions: (1) effectively reduce the risk and/or severity of entanglement, and (2) minimize the impacts of importation regulations to industry • Information on gear configuration will help define methods to measure the effectiveness of mitigation strategies. Some of the strategies that have been adopted by the U.S., particularly in the lobster fishery (such as weak links, sinking groundlines, etc.) may not have been as effective as hoped. • The information gathered from the questionnaire may prove useful in demonstrating to the U.S. that many of the current practices by industry fulfill the objective of limiting negative impacts on marine mammals. For Action: • Alan will work with Christa to send out email to develop questionnaires on gear configuration. • Christa to provide Alan's contact information to the group.	
4.	**Preliminary discussion on regional views regarding 2017 Canadian Atlantic Mackerel total allowable catch (TAC)**	Lead: Christa Waters
	Highlights/Outcome: • Christa noted that the official discussion on TAC recommendations will occur at AMAC; the purpose of this discussion is to help identify and focus on what the views are regionally. • She also noted that based on the most recent assessment, the stock is in the critical zone. • An industry member asked if we could request an increase in TAC. Christa responded that yes, this can be done, but would have to be at the AMAC meeting where that discussion takes place. For Action: • All – To consider what the appropriate TAC recommendations should be in light of the Science information available and subsequently provide these recommendations to the representatives attending the AMAC.	
2.	**Terms of Reference - committee membership**	Lead: Christa Waters
	Highlights/Outcome: • Since there has not been a regional-level mackerel advisory committee in Maritimes Region in many years, new terms of reference (ToRs) continue to be developed to guide the work of this group. • Some of the text for fishery advisory committee ToRs is fairly standard across committees and a draft was provided to the group prior to this meeting. There has been some feedback and this will be incorporated into the next draft. • How we define the membership of this committee needs more consideration. Membership should include whoever we think ought to be part of this group to help ensure it represents a good variety and balance of perspectives from the various interests involved. • It was noted that management boards/fishermen's associations should be at the table, rather than individual fishers who only represent themselves. • It was noted that while it is important to have representation from all interests at the table, moreover the group has to be maintained at a size that will ensure it is effective. Christa suggested 15-20 stakeholders other than DFO or provincial government. • [redacted] requested that his name be circulated to the group through the record of discussion as	

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	he intends to start a new association. For Action: • Christa to develop first draft of membership keeping in mind the size of the group and structure of the industry. It will be tabled for review through email and/or conference call. • [redacted] contact information to be circulated with record of decision – [redacted]	
6.	**Discussion of other (regional) management measures for 2017**	Lead: Christa Waters
	Highlights/Outcome: • The strong message from DFO Science that we need to be able to better monitor what is being caught in all mackerel fisheries was highlighted. • It was also noted that the proposal for a regulatory change to add a season and a bag limit for the recreational mackerel fishery (Atlantic-wide) is still in progress. Improving Monitoring in the Mackerel Fishery • To improve monitoring and reporting for the mackerel fishery, Christa proposed that requiring hailing out and in on a trip by trip basis and some level of DMP. This would enable us to have more up to date information on landings of mackerel through the season, and would also make it possible for C&P to do some spot checks on landings from time to time, and/or possibly allow for some level of dockside monitoring of catches now or in the future. That could give us higher confidence in the landings amounts that are being reported, and also provide an opportunity to monitor things like fish size. • It was indicated by a representative for the St. Margaret's Bay trapnet fishery that it would not be practical for a trapnet fisher to hail every time they wanted fished their trap. Others expressed concern that the cost of DMP for trips where only a few pounds of mackerel are caught would not make sense. • Christa indicated that everyone should give some thought to what might be the best approaches to achieve better catch monitoring in the mackerel fisheries, as additional steps are required. • It was suggested that some would like to go to using e-logs to improve the monitoring in the bait and commercial fisheries. Christa noted that this is something that is going to be worked on in Gulf/Quebec Region shortly, but not rolled out to the Maritimes Region this year. • An industry member asked if the delinquent log policy was in all fisheries. Christa noted that no, it's only in fisheries where compliance issues were identified. She stated that she has not completed an assessment on the compliance of logbook submissions for the mackerel fishery; however, this is something that should be done. • Another industry member noted that there will be no incentive to comply to any increase in reporting as it will run the risk of shutting down the fishery earlier in the season and the licence holders that fish later in the season will not have an opportunity to fish. Christa noted that if we have better data on landings then we get a better stock assessment and better management of the resource. Update on request to add handline to personal bait licences • Currently, the personal bait licences are for using gillnet only, though there's been interest expressed in being able to fish bait using handline. However, given the critical status of the stock, we don't want to make changes that will result in increased gear and effort in the fishery, so we need to consider how best to go about this. • One option would be that you would have to choose between having gillnet or handline as the gear type on your bait licence, not being able to fish both gear types at once. An industry representative indicated that you need gillnet to catch herring and hook and line to catch mackerel, so if you have to choose you'd only be able to target one species. • Christa updated further that since there has been staff turn-over on this file, this item has not yet been	

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	addressed. In addition, there are other regions that have had similar requests. This item has been pushed to the National level and will be on the agenda for AMAC. Christa noted that she would look further into this over the coming year. Use of Autojiggers/Mechanical devices • The use of automated jiggers in the mackerel fishery came up. It was noted that fishers have been permitted to use automated jiggers when they hold a handline licence for mackerel. It was noted that all other regions limit the number of automatic jiggers/lines and or hooks with the exception of Maritmes Region. She also indicated that a limit on the number of lines that may be fished at one time should be added. She noted for comparison and consideration that the limit on the number of lines that may be used with an automated jigger in the groundfish fishery is 4. The maximum allowed in Mackerel fisheries in other Regions: o Gulf – two mechanical devices or three handlines, and a mechanical device is limited to a maximum of four single lines, with a maximum of 100 hooks in the aggregate. o NL – A maximum of three handlines or two mechanical devices are permitted. o Quebec - a maximum of 200 single hooks for all the mechanical devices; or max of six handlines • Christa requested feedback on what would be an appropriate limit on these. Variation Order Clean-up • There has been a move to review all old and still active Variation Orders (VO). The VO 2006-050 will be revoked and currently has the gillnet/handline season open year round. Given the current state of the stock and the nature of the fishery (no one is fishing in Jan/Feb) what would be more appropriate? • It was suggested by some licence holders that there is no fishing until April, so that a closure from Jan 1 – March 31 would be appropriate. As fishing can occur right up until December in some years. • One licence holder requested splitting up the season for the whole mackerel fishery as there is concern about the fishery getting shut down when the TAC is reached and those that generally fish later in the year will not have an opportunity to fish. Christa noted that changes that would affect other regions would need to be discussed at AMAC. For Action: • All - Everyone provide feedback on achieving better catch monitoring, as additional steps are required. • Christa – Investigate the request to add hanline to bait licences over the coming year. • All – Consider what might be appropriate limitations on autojiggers/Mechanical devices as this Region is the only Region without limits. • Christa – Reissue VO 2006-050 for a closed time on handline/gillnet licence to be from Jan 1 – March 31, annually and post online.	
7.	**Safety at sea**	Lead: Christa Waters
	Highlights/Outcome: • This will be a standing agenda item to provide an opportunity for meeting participants to raise any issues related to safety, suggest any ways we might better take safety considerations into account in the ways we manage the mackerel fisheries, suggest presenters or presentation topics related to safety, etc. • No comments were made. For Action:	

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• All Advisory Committee participants to advise Christa Waters if you would like to present, suggest presenters, or propose topics for future meetings related to safety in the fishery.

Participants	
In Attendance	
NAME	**POSITION**
	Fundy Weir Fishermen's Association
	Fundy Weir Fishermen's Association
	St Margaret's Bay Trap Net
	UINR
	Guysborough County Inshore Fishermen's Association
	BIFA Digby Group
	Queens County Fish and Game Association
	NS Recreational Fishing
	Guysborough County Inshore Fishermen's Association
	PAFFA
	Licence Holder
	Grand Manan Fishermen's Association
	Lobster Council of Canada
	Seafood Producers Association of NS
	Comeau's Seafood
	Sea Crest Fisheries
Brian Boone	NB Provincial Government
	Ecology Action Centre
	Ecology Action Centre
	Bait Buyer
	MFU Local 9
	Halifax West Commercial Fishermen's Association
	St Margaret's Bay Trap Net
	Cape Breeze Seafoods
	Scotia Garden Seafood Inc.
	Connors Bros.
Rabindra Singh	DFO - Science
Christa Waters	DFO – Resource Management
Dwayne Surette	DFO Resource Management – SWNS Area Office
Alan Reeves	DFO – Resource Management
Chris Day	DFO – Conservation and Protection
Jennifer Hiltz	DFO Resource Management
Thomas Doniol-Valcroze	DFO Science - Quebec

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Marentette, Julie

From: Cawthray, Jenness
Sent: August-09-17 11:09 AM
To: Smith, Kathleen
Cc: Beauchamp, Brittany; Lester, Brian; Marentette, Julie; Beamish, Kayla
Subject: RE: adjusted Mackerel lines

Great Thanks!

From: Smith, Kathleen
Sent: August-09-17 11:06 AM
To: Cawthray, Jenness
Cc: Beauchamp, Brittany; Lester, Brian; Marentette, Julie; Beamish, Kayla
Subject: RE: adjusted Mackerel lines

we can make the change, will wait for MINO to get back to us and then suggest the adjustment.tx

---

From: Cawthray, Jenness
Sent: August-09-17 11:02 AM
To: Smith, Kathleen
Cc: Beauchamp, Brittany; Lester, Brian; Marentette, Julie
Subject: RE: adjusted Mackerel lines
Importance: High

Hi Kathleen,
If it is not too late, can you make the following change below as suggested by Science.
Thanks,
Jenness

From: Marentette, Julie
Sent: August-09-17 10:57 AM
To: Cawthray, Jenness
Cc: Beauchamp, Brittany
Subject: RE: adjusted Mackerel lines

Hi Jenness,

I do not have any updates on the genetic data for Mackerel.

I'm not certain if additional input on the media lines is possible, but I was uncertain what this new section refers to, in particular the term 'monitoring':

- The Department undertook a new and detailed stock assessment for Atlantic mackerel this spring. This new assessment included increased effort by science experts including additional monitoring and interaction with harvesters to improve the reliability and data included in the assessment.

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If it is still possible to provide input, I would like to suggest the following to enhance clarity:

- The Department undertook a new and detailed stock assessment for Atlantic mackerel this spring. This new assessment included increased effort by science experts including surveying harvesters to improve the catch data included in the assessment.

Best regards,

Julie Marentette, PhD

Science Advisor, Fish Population Science
Fisheries and Oceans Canada / Government of Canada
Julie.Marentette@dfo-mpo.gc.ca /Tel: 613-943-2098

Conseillère scientifique, Sciences des populations halieutiques
Pêches et Océans Canada / Gouvernement du Canada
Julie.Marentette@dfo-mpo.gc.ca /Tél: 613-943-2098

Like DFO on Facebook/Aimez le MPO sur Facebook

From: Cawthray, Jenness
Sent: August-09-17 8:20 AM
To: Marentette, Julie
Subject: FW: adjusted Mackerel lines

FYI, a few changes to the lines. Any news on the genetic test results?

From: Smith, Kathleen
Sent: August-08-17 3:49 PM
To: Cawthray, Jenness; Lester, Brian
Cc: Payne, Matthew
Subject: FW: adjusted Mackerel lines

Hello,

Note below has been sent to MINO comms.

Will let you know what we hear back.
KS

From: ComApproval / Approbation (DFO/MPO)
Sent: August-08-17 3:11 PM
To: Gareau, Laura
Cc: Smith, Kathleen; Nielsen, Ingrid; Payne, Matthew
Subject: FW: adjusted Mackerel lines

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Hi Laura,

Here are the adjusted Mackerel media lines. See comments below.
<< File: ML_Mackerel_TAC.docx >>

Brad Stollery
Communications Branch/Direction générale des communications
bradley.stollery@dfo-mpo.gc.ca
Fisheries and Oceans Canada | 200 Kent St. Ottawa, ON K1A 0E6
Pêches et Océans Canada | 200, rue Kent Ottawa, ON K1A OE6
><((((º>

From: Smith, Kathleen
Sent: August-08-17 3:07 PM
To: ComApproval / Approbation (DFO/MPO)
Cc: Nielsen, Ingrid; Payne, Matthew
Subject: adjusted Mackerel lines

MINO asked for these –left changed tracked for Laura.

PLs note its getting late in day to issue notice, program's sense is that might be better to go tomorrow morning.
K

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MEDIA LINES

Atlantic Mackerel Total Allowable Catch 2017

Issue

On August XX (TBC), Fisheries and Oceans Canada (DFO) will announce the 2017 Total Allowable Catch (TAC) decision for the Atlantic Mackerel fishery. The TAC for the commercial catch in 2017 will be set at 10,000 tonnes, which is an increase from the 2016 TAC of 8,000 tonnes. Given increased reporting requirements, it is anticipated that undeclared/unreported catches will be significantly reduced this year. The Department can expect media calls on the decision, as industry's expectations were for a significant TAC increase; however their request was not supported by the science advice (which the Department has followed). We would expect that there will also be negative reaction from the Ecology Action Center and some Indigenous groups that suggested a reduced harvest level given the stock is assessed to be in the critical zone.

The Atlantic Mackerel Advisory Committee meeting took place on March 30, 2017 in Halifax, Nova Scotia. DFO chaired the meeting and participants included upwards of 60 stakeholders, including Indigenous groups, harvesters, processors, environmental non-government organizations, the four Atlantic Provinces, and Quebec.

Judicial Review : On November 10, 2016, Fisheries and Oceans Canada received a judicial review application filed in the Federal Court by Barry Group Inc., Pride Ventures Inc., 67108 Newfoundland & Labrador Inc., and Gauvin and Noel Compagnie Inc. The Applicants are challenging the Minister's decisions in relation to the closure of the Atlantic Mackerel Fishery in all areas in October 2016. The Applicants submit that the decisions effectively prevented the over 65' fleet (to which they belong) to harvest their share of the total allowable catch etc. The case has not yet been heard.

Media lines

- The 2017 Total Allowable Catch for the commercial fishery is set at 10,000 tonnes under a one-year management plan. This increase recognizes both the projected increases in the biomass over the coming year and the commitment to address unreported landings in the fishery.

- Fisheries management decisions for all stocks, including Atlantic mackerel include consideration of the best available science as well as input from Indigenous groups, harvesters, processors, environmental non-government organizations and the provinces.

- The Department undertook a new and detailed stock assessment for Atlantic mackerel this spring. This new assessment included increased effort by science experts including additional monitoring and interaction with harvesters to improve the reliability and data included in the assessment.

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- This new assessment was discussed with members of the Atlantic Mackerel Advisory Committee (AMAC) on March 30, 2017 and input from stakeholders played an important role in the Department's TAC decision.

- While the science assessment has shown some signs of slight improvement in the stock, the stock assessment indicates that the stock remains in the critical zone under DFO's Precautionary Approach framework.

- Following discussion with AMAC increased reporting has been instituted including the introduction of 100% hail of catch with 25% dockside monitoring in the Gulf region. This new system provides more real-time harvest information and it should result in less undeclared catch.

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- The established harvest level allows for a greater than 75% probability that the stock biomass will continue to increase at the established harvest level. This corresponds to a high probability of growth and reflects the Department's commitment to the Precautionary Approach. With a commercial TAC of 10,000 tonnes and estimates of undeclared landings from other sources (e.g. bait and recreational fishery), there would be a greater than a 75% probability of the biomass increasing over the next two years.

- Fisheries and Oceans Canada is committed to balancing economic opportunity and financial stability of the Atlantic mackerel fishery while promoting the sustainability of this resource.

- The Department has established a one-year TAC in line with the industry request to revisit the harvest level at the end of the 2017 fishery.

If pressed on how the decision was made:

- Management decisions for this fishery consider long-term conservation and sustainability of the stock and take into account the best available science, the Department's management plan, and views expressed by stakeholders during consultations.

- Industry views are that the overall biomass is significantly larger than the science would indicate based on what they experienced in the 2016 fishery.

- The Department has initiated a DFO and industry rebuilding plan working group for this stock that will meet over the coming year to develop a plan for consideration by the Atlantic Mackerel Advisory Committee. This will support rebuilding the stock into the Healthy Zone of the Precautionary Approach Framework

If pressed on why TAC was announced after fishery was underway:

- The Department delayed announcement of the TAC for this year in order to evaluate the effectiveness of the new catch monitoring instituted in the Gulf. ~~for the~~

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~~fishery in the southern Gulf (100% hail of catch with 25% dockside monitoring). This new system provides more real-time harvest information and it should result in less undeclared catch.~~

If pressed on judicial review:

- The Department will not comment on this matter, as it is currently before the Court.

Spokesperson: Adam Burns

Program Contact: Brian Lester, Adam Burns

Communications Contact: Kayla Beamish

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Beamish, Kayla

From: Cawthray, Jenness
Sent: August 9, 2017 9:39 AM
To: Smith, Kathleen
Cc: Beamish, Kayla; Lester, Brian
Subject: RE: Mackerel notice

Thank you! Web material is ready and will send to you once Brian has reviewed. Keep me posted on the Comm lines as I will send out the notice to fish harvesters once I hear from you.
Thanks!

Jenness

From: Smith, Kathleen
Sent: August-09-17 9:37 AM
To: Cawthray, Jenness
Cc: Beamish, Kayla; Lester, Brian
Subject: Mackerel notice

Jenness,
Just a reminder about the web notice for mackerel –our web team hasn't received it yet. We haven't heard back form MINO yet on the reworked lines.

Good news today is that Kayla is back! ☺

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Lester, Brian

From: Cawthray, Jenness
Sent: 2017–August-09 8:00 AM
To: Lester, Brian
Subject: FW: adjusted Mackerel lines

Hi Brian,
Do we need to send to Science to review the changes or is it fine?
Thanks,
Jenness

From: Smith, Kathleen
Sent: August-08-17 3:49 PM
To: Cawthray, Jenness; Lester, Brian
Cc: Payne, Matthew
Subject: FW: adjusted Mackerel lines

Hello,

Note below has been sent to MINO comms.

Will let you know what we hear back.
KS

From: ComApproval / Approbation (DFO/MPO)
Sent: August-08-17 3:11 PM
To: Gareau, Laura
Cc: Smith, Kathleen; Nielsen, Ingrid; Payne, Matthew
Subject: FW: adjusted Mackerel lines

Hi Laura,

Here are the adjusted Mackerel media lines. See comments below.



ML_Mackerel_T...

Brad Stollery
Communications Branch/Direction générale des communications
bradley.stollery@dfo-mpo.gc.ca
Fisheries and Oceans Canada | 200 Kent St. Ottawa, ON K1A 0E6
Pêches et Océans Canada | 200, rue Kent Ottawa, ON K1A OE6
><((((º>

From: Smith, Kathleen
Sent: August-08-17 3:07 PM
To: ComApproval / Approbation (DFO/MPO)
Cc: Nielsen, Ingrid; Payne, Matthew
Subject: adjusted Mackerel lines

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MINO asked for these –left changed tracked for Laura.

PLs note its getting late in day to issue notice, program's sense is that might be better to go tomorrow morning.
K

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Beamish, Kayla

From: Cawthray, Jenness
Sent: August 10, 2017 2:45 PM
To: Beamish, Kayla; Lester, Brian
Subject: RE: DFO Website_ Mackerel TACannoucement.docx

Hi Kayla,
I just sent you an email. We plan to have the decision out shortly and you will receive the notice through our distribution list once released.
Thanks,
Jenness

From: Beamish, Kayla
Sent: August-10-17 2:43 PM
To: Lester, Brian
Cc: Cawthray, Jenness
Subject: RE: DFO Website_ Mackerel TACannoucement.docx

Hi Brian,

We'll be sending the media lines book to MINO today (contains mackerel lines by MINO request) – are we holding on the mackerel announcement for a while?
Will need to revise and just use holding lines from before if we don't plan to have the decision out by tomorrow.

Let me know!
Thanks,
Kayla

From: Lester, Brian
Sent: August 10, 2017 11:09 AM
To: Beamish, Kayla; Cawthray, Jenness
Cc: Smith, Kathleen
Subject: Re: DFO Website_ Mackerel TACannoucement.docx

Hold for now please.

Sent from my BlackBerry 10 smartphone on the Rogers network.

From: Beamish, Kayla
Sent: Thursday, August 10, 2017 9:52 AM
To: Cawthray, Jenness; Lester, Brian
Cc: Smith, Kathleen
Subject: RE: DFO Website_ Mackerel TACannoucement.docx

Hi Jenness and Brian,
Just checking in on this one – did we decide to go ahead and post the decision?
Hoping to update the issue section of the lines.

Thanks!

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From: Beamish, Kayla
Sent: August 9, 2017 1:38 PM
To: Cawthray, Jenness; Lester, Brian
Cc: Smith, Kathleen
Subject: RE: DFO Website_ Mackerel TACannoucement.docx

Hi Jenness,

Would we typically wait for the lines to be approved before posting the decision? If MINO has already approved the decision I don't see a need to hold on posting, and the lines are with them now. Just don't want us to be holding up the process here.

I'm playing a bit of catch up after holidays so let me know if I'm missing something – if we were asked to wait on approval of lines.

Thanks!
Kayla

From: Cawthray, Jenness
Sent: August 9, 2017 11:36 AM
To: Smith, Kathleen; Beamish, Kayla
Cc: Lester, Brian
Subject: DFO Website_ Mackerel TACannoucement.docx
Importance: High

Hi Kathleen,
Please see material for DFO website regarding Mackerel TAC.
As soon as we get your go ahead from MINO we will send the Notice to Fish harvesters and the website can go live.
Thank you,
Jenness

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Patterson, Pauline

De: Bruxer, Shelby
Envoyé: August-10-17 4:06 PM
Objet: Atlantic Mackerel Management Plan 2017 / Plan de gestion 2017, maquereau de l'Atlantique
Pièces jointes: TAC Notification.pdf

SENT ON BEHALF OF BRIAN LESTER, CHAIR, ATLANTIC MACKEREL ADVISORY COMMITTEE (AMAC)

ENVOYÉ DE LA PART DE BRIAN LESTER, PRÉSIDENT, COMITÉ CONSULTATIF DE MAQUEREAU ATLANTIQUE (CCMA)

Thank you,

Merci,

Shelby Bruxer
Administrative Assistant, Resource Management
Adjointe Administrative, Gestion intégrée des ressources
Fisheries and Oceans Canada / Pêches et Océans Canada
200 Kent Street, Ottawa ON K1A 0E6

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Fisheries and Oceans Canada | Pêches et Océans Canada

Your File *Votre référence*

AUG 1 0 2017

Our File *Notre référence*

TO: ATLANTIC MACKEREL ADVISORY COMMITTEE (AMAC)/
AU: COMITÉ CONSULTATIF DE MAQUEREAU ATLANTIQUE (CCMA)

ATLANTIC MACKEREL MANAGEMENT PLAN 2017

The Minister has set the Total Allowable Catch (TAC) for the Atlantic Mackerel fishery for 2017.

The 2017 TAC for the commercial catch is set at 10,000 tonnes under a one-year management plan.

The Department will hold a conference call with the AMAC on August 24, 2017 at 10:30 a.m. – 12:00 p.m. (EST) to provide an update on commercial landings and to discuss sharing arrangements for the remainder of the 2017 fishery.

Please confirm your interest in participating by August 17, 2017 to Shelby.Bruxer@dfo-mpo.gc.ca and dial-in information will be provided.

PLAN DE GESTION 2017 - MAQUEREAU DE L'ATLANTIQUE

Le Ministre a fixé le total autorisé des captures (TAC) pour le maquereau de l'atlantique pour l'année 2017.

Le TAC pour l'année 2017 pour les prises commerciales est fixé à 10 000 tonnes dans le cadre d'un plan de gestion d'un an.

Le Ministère tiendra une conférence téléphonique avec le CCMA le 24 août 2017 de 10h30 à 12h00 (HE) afin de fournir une mise à jour sur les débarquements commerciaux et pour en discuter les ententes de partages pour le reste de la pêche de 2017.

Veuillez confirmer votre intérêt de participer avant le 17 août 2017 par courrier électronique: Shelby.Bruxer@dfo-mpo.gc.ca. Des informations de numérotation seront fournies.

Brian Lester
Chair/Président

Canada

Ottawa, Canada
K1A 0E6

003717

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Cawthray, Jenness

From: Lester, Brian
Sent: August-10-17 12:10 PM
To: Day, Robert
Cc: Jenkins, Randy; Cawthray, Jenness
Subject: Mackerel

Importance: High

Robert: For your consideration to send on to Sylvie. I know its long but mostly factual details that I think are required.

Please see below a summary on the status of mackerel.

While we have not yet announced the TAC for this year, most fisheries are open with some opening more than two months ago. The recent openings in NL have prompted interest/enquiries on the TAC level and catch. As of August 9th, it is estimated that more that 3100t of mackerel have been landed in the commercial fishery. While Quebec and Maritimes catches are fairly consistent with recent years, reported landings in the Gulf are significantly higher than last year but likely mainly due to the change in monitoring.

As you will recall, the region instituted the requirement of 100% hail of catch estimate with 25% dockside monitoring of all Gulf landings. So far, for the 2017 season, landings in the Gulf are approximately 2300t compared to 1226t for the entire 2016 season (which relied exclusively on the returns of sale slips). The Region has indicated that landings in previous years were likely significantly underreported in the Gulf. Based on Regional estimates, landings could reach 4000t by September if fishing effort remains similar to previous years for the month of August.

The plan is for the Dept. to publicly announce the 10,000t today (August 10) which will likely result in requests for info on catch and this level is expected to be strongly opposed by fleets but mostly by NL. Media lines have been prepared.

In 2016 the fishery was closed in early October, before the NL offshore fleet had harvested any significant amount. Given the current reported landings in the Gulf and catch rates, it is a possibility that the Mackerel fishery could be closed earlier this year than the October closing of 2016, and the Newfoundland Region could have limited ability to fish.

The Department intends to have a call with AMAC reps, when approximately 50% of the TAC is harvested, to discuss the sharing arrangement for the remaining 50% for the 2017 fishery. The Department intends to hold a teleconference with AMAC members on September 8th but given current catches in other areas and the possibility of NL fishing in the coming weeks, 50% of the TAC may be surpassed by that date. Following a call with AMAC, a decision will need to be quickly made on whether the inshore will continue to maintain priority (i.e. be permitted to continue to fish beyond catch levels of 6,000t or if we would stick the 60/40 (inshore/offshore) split as outlined in the IFMP.

Table of Mackerel landings as of August 9th by region are:
2017 Mackerel Landings
(tonnes)

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*Gulf	2256
Maritimes	576
Quebec	286
NL	0
Total	3118

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Bruxer, Shelby

From: Lapointe, Sylvie
Sent: August-10-17 2:40 PM
To: Day, Robert
Cc: French, Christopher; Jenkins, Randy; Lester, Brian
Subject: RE: Mackerel

Thx. We spoke – what date are we landing on?

Sylvie

From: Day, Robert
Sent: Thursday, August 10, 2017 1:43 PM
To: Lapointe, Sylvie <Sylvie.Lapointe@dfo-mpo.gc.ca>
Cc: French, Christopher <Christopher.French@dfo-mpo.gc.ca>; Jenkins, Randy <Randy.Jenkins@dfo-mpo.gc.ca>; Lester, Brian <Brian.Lester@dfo-mpo.gc.ca>
Subject: FW: Mackerel
Importance: High

Info for you and request for discussion or guidance on approach to set up a mid year call once 50% is taken – set it now around when we think 50% will be reached (which will be a signal itself) or wait til it is reached and then set up a quick call with AMAC. As well, some are seeking info on catch levels now and whether we would provide that at all or wait until the call.

We are about to announce the TAC for this year. Most fisheries are open with some opening more than two months ago. The recent openings in NL have prompted interest/enquiries on the TAC level and catch.

As of August 9th, it is estimated that more that 3100t of mackerel have been landed in the commercial fishery. While Quebec and Maritimes catches are fairly consistent with recent years, reported landings in the Gulf are significantly higher than last year. This is likely due to the change in monitoring.

As you will recall, the region instituted the requirement of 100% hail of catch estimate with 25% dockside monitoring of all Gulf landings. So far, for the 2017 season, landings in the Gulf are approximately 2300t compared to 1226t for the entire 2016 season (which relied exclusively on the returns of sale slips). Based on estimates, landings could reach 4000t in the Gulf by September if fishing effort remains similar to previous years for the month of August.

The plan is for the Dept. to publicly announce the 10,000t today (August 10) which will likely result in additional requests for info on catch to date. The TAC is expected to be opposed by fleets but mostly by NL. Media lines have been prepared.

In 2016 the fishery was closed in early October, before the NL offshore fleet had harvested any significant amount. Given the current reported landings in the Gulf and catch rates, it is a possibility that the Mackerel fishery could be closed earlier this year than the October closing of 2016.

The Department intends to have a call with AMAC reps, when approximately 50% of the TAC is harvested, to discuss the sharing arrangement for the remaining 50% for the 2017 fishery. The Department intends to hold a

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teleconference with AMAC members on September 8th but given current catches in other areas and the possibility of NL fishing in the coming weeks, 50% of the TAC may be surpassed by that date.

Following a call with AMAC, a decision will need to be quickly made on whether the inshore will continue to maintain priority (i.e. be permitted to continue to fish beyond catch levels of 6,000t or if we would stick the 60/40 (inshore/offshore) split as outlined in the IFMP.

Table of Mackerel landings as of August 9th by region are:

2017 Mackerel Landings (tonnes)	
*Gulf	2256
Maritimes	576
Quebec	286
NL	0
Total	3118

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Potter, Ted

From: Potter, Ted
Sent: 2017–August-10 4:19 PM
To: Berthier, Jacinta; Wentzell, Doug
Subject: Fw: Mackerel TAC
Attachments: ML_Mackerel_TAC.docx; DFO Website_TACannoucement.docx; MECTS-#3810595-v3-AMAC_Notice_TAC_2017.DOCX

Fyi

Ted

Sent from my BlackBerry 10 smartphone on the Bell network.

From: Waters, Christa <Christa.Waters@dfo-mpo.gc.ca>
Sent: Thursday, August 10, 2017 3:56 PM
To: Potter, Ted
Cc: Hiltz, Jennifer; Singh, Rabindra
Subject: FW: Mackerel TAC

Hello,

For your info.

Christa

Christa Waters
Regional Senior Fisheries Management Advisor
Resource Management | Gestion des Pêches
Maritimes Region | Région des Maritimes
Telephone | Téléphone 902-293-6541

From: Cawthray, Jenness
Sent: August-10-17 3:54 PM
To: Waters, Christa; Rivierre, Antoine; Dunne, Erin; Mallet, Pierre; Gaudet, Mario
Cc: Lester, Brian
Subject: Mackerel TAC

Hi All,

The TAC is planned to be released shortly. You will receive the signed notice to fish harvesters; however, I have attached the unsigned version. Please find materials pertaining to TAC for your information. Includes media lines, notice to AMAC and Website material.

Note the following change planned for the comm lines attached:

- The Department undertook a new and detailed stock assessment for Atlantic mackerel this spring. This new assessment included increased effort by science experts including additional monitoring and interaction with harvesters to improve the reliability and data included in the assessment.

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If it is still possible to provide input, I would like to suggest the following to enhance clarity:

- The Department undertook a new and detailed stock assessment for Atlantic mackerel this spring. This new assessment included increased effort by science experts including surveying harvesters to improve the catch data included in the assessment.

Thanks,

Jenness Cawthray
Senior Fisheries and Aquaculture Management Officer |
Agent principal, Gestion des pêches et de l'aquaculture
Fisheries and Oceans | Pêches et océans
200 rue Kent Street - 13S013 Ottawa, ON, K1A 0E6
Jenness.Cawthray@dfo-mpo.gc.ca
Telephone | Téléphone (613) 998-1524
Facsimile | Télécopieur (613) 990-7051
Government of Canada | Gouvernement du Canada

Pages 3724 to / à 3726

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pages 3692 to / à 3694

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Atlantic Mackerel – NAFO Subareas 3 and 4

Dates of season (subject to change)

June to November

Total Allowable Catches

TAC of 10,000 tonnes for 2017.

Sharing Arrangements (if applicable)

The Department will hold a conference call with the Atlantic Mackerel Advisory Committee on August 24, 2017 to discuss sharing arrangements for the 2017 season.

Management Measures

A Canadian total allowable catch of 10,000 tonnes for 2017.

DFO has implemented tools to improve monitoring of landings in the commercial mackerel fishery.

Minimum fish size for commercial mackerel retention remains at 263mm.

Single or Multi-year Planning

This decision is for this year (2017) only.

Additional Information

The Department undertook a new stock assessment for Atlantic mackerel in the spring of 2017 and presented the results to the 2017 Atlantic Mackerel Advisory Committee. While the science assessment has shown some signs of slight improvement in the stock, the stock assessment

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indicates that the stock remains in the critical zone under DFO's Precautionary Approach framework.

Links to other information

- ATLANTIC MACKEREL - Effective 2007

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MAQUEREAU DE L'ATLANTIQUE – Toute la région de l'Atlantique - sous-zones 3 et 4 de l'OPANO

Dates de la saison (sujettes à changement)

De juin à novembre

Total autorisé des captures (TAC)

Le TAC est de 10 000 tonnes pour 2017.

Ententes de partage (le cas échéant)

Le Ministère tiendra une conférence téléphonique avec le comité consultatif du maquereau de l'Atlantique (CCMA) le 24 août 2017 afin d'examiner les ententes de partages pour 2017.

Mesures de gestion

Le total canadien autorisé des captures est de 10 000 tonnes pour 2017.

MPO a implémenté les outils pour améliorer la surveillance des débarquements dans la prise commerciale de maquereau.

La taille minimale des prises commerciales de maquereaux aux fins de rétention reste à 263 mm.

Planification annuelle ou pluriannuelle

Cette décision ne s'applique qu'à cette année (2017).

Renseignements supplémentaires

Le Ministère a entrepris une nouvelle évaluation des stocks du maquereau de l'atlantique au printemps 2017 et a présenté les résultats à la réunion du CCMA de 2017. Bien que l'évaluation scientifique ait montré des signes d'une légère amélioration du stock, l'évaluation des stocks

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indique que le stock reste dans la zone critique dans le cadre de l'approche de précaution du MPO.

Liens vers d'autres sources d'information

- MAQUEREAU DE L'ATLANTIQUE - En vigueur à partir de 2007

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TO: ATLANTIC MACKEREL ADVISORY COMMITTEE (AMAC)/ AU: COMITÉ CONSULTATIF DE MAQUEREAU ATLANTIQUE (CCMA)

ATLANTIC MACKEREL MANAGEMENT PLAN 2017

The Minister has set the Total Allowable Catch (TAC) for the Atlantic Mackerel fishery for 2017.

The 2017 TAC for the commercial catch is set at 10,000 tonnes under a one-year management plan.

The Department will hold a conference call with the AMAC on August 24, 2017 at 10:30 a.m. – 12:00 p.m. (EST) to provide an update on commercial landings and to discuss sharing arrangements for the remainder of the 2017 fishery.

Please confirm your interest in participating by August 17, 2017 to Shelby.Bruxer@dfo-mpo.gc.ca and dial-in information will be provided.

PLAN DE GESTION 2017 - MAQUEREAU DE L'ATLANTIQUE

Le Ministre a fixé le total autorisé des captures (TAC) pour le maquereau de l'atlantique pour l'année 2017.

Le TAC pour l'année 2017 pour les prises commerciales est fixé à 10 000 tonnes dans le cadre d'un plan de gestion d'un an.

Le Ministère tiendra une conférence téléphonique avec le CCMA le 24 août 2017 de 10h30 à 12h00 (HE) afin de fournir une mise à jour sur les débarquements commerciaux et pour discuter les ententes de partages pour le reste de la pêche de 2017.

Veuillez confirmer votre intérêt de participer avant le 17 août 2017 par courrier électronique: Shelby.Bruxer@dfo-mpo.gc.ca. Des informations de numérotation seront fournies.

Brian Lester
Chair/Président

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Government of Canada
Fisheries and Oceans

EKME# 3810595v2
AAJ-4905-_

To: / Pour : Brian Lester

Date: 08/08/17

Subject: / Objet :

Letter to AMAC members:

ATLANTIC MACKEREL ADVISORY COMMITTEE NOTICE

From: Jenness Cawthray, Sr. Officer – RM-Atlantic

Via: Brian Lester, Manager – RM-Atlantic

[X] Your Signature / Votre signature	[ ] Information
[ ] For Comments / Observations	[ ] Material for the Minister / Documents pour le ministre

Drafting Officer : Jenness Cawthray

Related doc's verified by: ____ / ____ / ____

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Potter, Ted

From: Potter, Ted
Sent: 2017–August-10 3:39 PM
To: Cawthray, Jenness; Waters, Christa; Hiltz, Jennifer
Subject: RE: AMAC teleconference

Please invite Jen Hiltz to the call.

Ted

Ted Potter
Regional Manager, Resource Management | Gérant régionale, gestion des ressources
Fisheries Management | Gestion des pêches
Maritimes Region | Région des Maritimes
Fisheries & Oceans Canada | Pêches et Océans Canada
Ph/Tél: (902) 456- 4090

From: Cawthray, Jenness
Sent: 2017–August-10 3:34 PM
To: Waters, Christa; Potter, Ted; Hiltz, Jennifer
Subject: RE: AMAC teleconference

Will do

From: Waters, Christa
Sent: August-10-17 2:28 PM
To: Potter, Ted; Hiltz, Jennifer; Cawthray, Jenness
Subject: FW: AMAC teleconference
Importance: High

Hello Ted,

It looks like there will be an Atlantic Mackerel Advisory Committee call on Aug 24th. I will not be around at this time. Jenness is the organizer.

Jenness – can you please keep Ted in the loop and cc me for my records?

Thanks,

Christa

Christa Waters
Regional Senior Fisheries Management Advisor
Resource Management | Gestion des Pêches
Maritimes Region | Région des Maritimes
Telephone | Téléphone 902-293-6541

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From: Cawthray, Jenness
Sent: August-10-17 3:20 PM
To: Waters, Christa; Gaudet, Mario; Mallet, Pierre; Dunne, Erin; Rivierre, Antoine
Subject: AMAC teleconference
Importance: High

A quick heads up that we are planning AMAC teleconference on August 24th at 10:30-12:00.

Jenness Cawthray
Senior Fisheries and Aquaculture Management Officer |
Agent principal, Gestion des pêches et de l'aquaculture
Fisheries and Oceans | Pêches et océans
200 rue Kent Street - 13S013 Ottawa, ON, K1A 0E6
Jenness.Cawthray@dfo-mpo.gc.ca
Telephone | Téléphone (613) 998-1524
Facsimile | Télécopieur (613) 990-7051
Government of Canada | Gouvernement du Canada

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s.19(1)

Lester, Brian

From: Lester, Brian
Sent: 2017–August-10 4:47 PM
To: Adam, Megan; Beamish, Kayla
Cc: Cawthray, Jenness
Subject: Re: DFO Website_TACannoucement.docx

Thank you all.

Sent from my BlackBerry 10 smartphone on the Rogers network.

From: Adam, Megan
Sent: Thursday, August 10, 2017 4:43 PM
To: Beamish, Kayla
Cc: Lester, Brian; Cawthray, Jenness
Subject: RE: DFO Website_TACannoucement.docx

Now published here:
http://www.dfo-mpo.gc.ca/decisions/fm-2017-gp/atl-17-eng.htm
http://www.dfo-mpo.gc.ca/decisions/fm-2017-gp/atl-17-fra.htm

From: Beamish, Kayla
Sent: August-10-17 1:13 PM
To: Adam, Megan
Cc: Lester, Brian; Cawthray, Jenness
Subject: RE: DFO Website_TACannoucement.docx

Megan, just saw that the notice went out to harvesters so we can put this online whenever you're ready
Thanks!

From: Adam, Megan
Sent: August 10, 2017 3:11 PM
To: Cawthray, Jenness; Beamish, Kayla; Smith, Kathleen
Cc: Lester, Brian
Subject: RE: DFO Website_TACannoucement.docx

Thanks – we'll get this posted. Do you want to see it before it goes live?

From: Cawthray, Jenness
Sent: August-10-17 12:01 PM
To: Beamish, Kayla; Smith, Kathleen; Adam, Megan
Cc: Lester, Brian
Subject: RE: DFO Website_TACannoucement.docx

Hi Kayla,
Can you take care of informing Megan? I will likely be out of the office when this is posted. I have asked that you be included on the email to AMAC so you will receive the same time as the fish harvesters.
Yes revisions are done in both languages.
[redacted]Brian will be here.
Thanks!
Jenness

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From: Beamish, Kayla
Sent: August-10-17 2:57 PM
To: Cawthray, Jenness; Smith, Kathleen; Adam, Megan
Cc: Lester, Brian
Subject: RE: DFO Website_TACannoucement.docx

Thanks Jenness. Looping in Megan Adam who is our web guru.
If you keep her in the loop directly as things progress, she can have the decision posted online.
I see the English and French are in the same document – were all revisions made in both languages?

Megan – looping you in!

Thanks,
Kayla

From: Cawthray, Jenness
Sent: August 10, 2017 2:41 PM
To: Beamish, Kayla; Smith, Kathleen
Cc: Lester, Brian
Subject: DFO Website_TACannoucement.docx
Importance: High

Hi Kayla!
Welcome back. Please see this updated webpage for TAC announcement for Mackerel.
Please delete older versions.
We plan to send the notice to fish harvesters soon. You will receive a copy of the notice from Shelby at the same time as it is sent to all of AMAC. Once you receive the notice you can post the decision on the DFO website.
Thank you!
Jenness

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Taché, Hélène

From: Beamish, Kayla
Sent: August-11-17 3:48 PM
To: ComApproval / Approbation (DFO/MPO)
Subject: RE: APPROVED: 233/17 HQ-ML: ATLANTIC MACKEREL TOTAL ALLOWABLE CATCH 2017

Thanks! ☺

From: ComApproval / Approbation (DFO/MPO)
Sent: August 11, 2017 3:43 PM
To: Beamish, Kayla
Cc: Smith, Kathleen; Nielsen, Ingrid
Subject: APPROVED: 233/17 HQ-ML: ATLANTIC MACKEREL TOTAL ALLOWABLE CATCH 2017

Hi Kayla,

This message has been approved by the Minister's Office. Please see the attached approval sheet for your reference.
<< File: 233-17.pdf >>
ATLANTIC MACKEREL TOTAL ALLOWABLE CATCH 2017
W:\CAP\HQ\2017\EFM\FM\ML_Mackerel_TAC.docx

Thanks,

Elise Grundy
Communications Branch/ Direction générale des communications
613-993-0996 | facsimile/télécopieur 613-993-8277
elise.grundy@dfo-mpo.gc.ca
Fisheries and Oceans Canada | 200 Kent St. Ottawa, ON K1A 0E6
Pêches et Océans Canada | 200, rue Kent Ottawa, ON K1A OE6
Government of Canada | Gouvernement du Canada

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Taché, Hélène

From: Nielsen, Ingrid
Sent: August-11-17 3:19 PM
To: Gareau, Laura; ComApproval / Approbation (DFO/MPO)
Cc: Smith, Kathleen; Payne, Matthew
Subject: 233/17 RE: adjusted Mackerel lines

It is out now.

From: Gareau, Laura
Sent: August 11, 2017 3:19 PM
To: ComApproval / Approbation (DFO/MPO)
Cc: Smith, Kathleen; Nielsen, Ingrid; Payne, Matthew
Subject: RE: adjusted Mackerel lines

Approved. When is decision going out?

From: ComApproval / Approbation (DFO/MPO)
Sent: Tuesday, August 8, 2017 3:11 PM
To: Gareau, Laura <Laura.Gareau@dfo-mpo.gc.ca>
Cc: Smith, Kathleen <Kathleen.Smith@dfo-mpo.gc.ca>; Nielsen, Ingrid <Ingrid.Nielsen@dfo-mpo.gc.ca>; Payne, Matthew <Matthew.Payne@dfo-mpo.gc.ca>
Subject: FW: adjusted Mackerel lines

Hi Laura,

Here are the adjusted Mackerel media lines. See comments below.
<< File: ML_Mackerel_TAC.docx >>

Brad Stollery
Communications Branch/Direction générale des communications
bradley.stollery@dfo-mpo.gc.ca
Fisheries and Oceans Canada | 200 Kent St. Ottawa, ON K1A 0E6
Pêches et Océans Canada | 200, rue Kent Ottawa, ON K1A OE6
><((((º>

From: Smith, Kathleen
Sent: August-08-17 3:07 PM
To: ComApproval / Approbation (DFO/MPO)
Cc: Nielsen, Ingrid; Payne, Matthew
Subject: adjusted Mackerel lines

MINO asked for these –left changed tracked for Laura.

PLs note its getting late in day to issue notice, program's sense is that might be better to go tomorrow morning.
K

Pages 3740 to / à 3742

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pages 3705 to / à 3707

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s.19(1)

Patterson, Pauline

De: Larochelle, Mia
Envoyé: August-11-17 3:48 PM
À: Wilkins, Kevin
Cc: Morin, Bernard; Gros-Louis, Denis
Objet: Portrait des pêches en cours - Pour directeurs intérimaires

Bonjour Kevin,

Je prends un moment pour te dresser un portrait des pêches encours/à venir, pour lesquelles il est le plus probable que nous recevions des appels. Ça pourra t'être utile dans tes fonctions de directeurs de secteur. J'ai intégré les principaux plans de pêche, les autres sont tous disponibles sur notre G. J'ai demandé un accès pour toi.

Ce document, mis à jour par Vincent Rémillard, notre analyste aux statistiques, est un bel outil pour avoir un portrait rapide des pêches en cours et des suivis de débarquement. Il le mettra à jour

Suivi des pêches - Gaspésie - ...

Pêches compétitives de poisson de fond (responsables : Steve/Magalie/ Mia) :

- Turbot – Selon les données préliminaires, il reste environ 600 kg de plus que le 15% reportable pour la flottille. J'ai consulté les représentants. Ils proposent de faire une autre ouverture au début mai (la saison de pêche se termine le 14 mai de chaque année).
- Flétan des homardiers – Selon les données préliminaires, les pêcheurs ont un résiduel de 2,956 t sur une allocation globale de 44,017 t. Il reste donc 7,1% de quota à l'eau (par rapport à l'allocation initiale). Toutes les quantités laissées à l'eau sont admissible au report de quota pour 2018-2019. Tous les représentants sont d'accord pour que le quota soit reporté à l'an prochain.
- Flétan du groupe des autres – Le TAC ayant été atteint, même dépassé, aucune autre ouverture à prévoir. Les représentants ont été avisés :

Pêche compétitive du f...

Dernières ouvertures de pêche en secteur (responsable : Mia) :

- Concombre de mer exploratoire : du 20 juillet au 27 septembre

Concombre de mer - Avis aux p... Concombre de mer - Gaspésie -...

- Crabe commun : du 5 août au 29 septembre

Crabe commun - ZPC 12-17 - GBS... Crabe commun - ZPC 12-17 - GBS...

Ouvertures à venir dans les prochaines semaines (Responsable Antoine Rivière, avec secteurs en appui) :

- Automne - zone 16B - Pêche à la rave : Ouverture le 21 août.
- Thon rouge – Ouverture le 18 août.

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s.19(1)

Thon rouge - 4RST - Avis aux ...

Thon rouge - PPAC saison 201...

- En septembre : Pêche ASR homard Listuguj

Pêches expérimentales (les pêches expérimentales pour les espèces gérées en secteur, de même pour que la récolte d'algues, sont encore gérées à Gaspé) :

Concombre

1. Gesgapegiag – Drague écoresponsable, tests fais avec le bateau de Mathieu Girard, titulaire dans la zone C, avec son permis exploratoire, cette semaine. Résultats très concluants.
2. Gesgapegiag - Drague écoresponsable, pêche 30 tonnes dans la zone B. Début des activités : semaine du 21 août. Permis en rédaction (Sandrine Bureau).
3. Viger Début des activités : mercredi prochain, 16 août. La demande de permis a été déposée à la toute dernière minute. Nous (Marie-Josée) y travaillons activement. J'ai eu quelques discussions à ce sujet avec Guy-Pascal Weiner cette semaine :

Permis expérimental de ...

[redacted] N'hésite pas à consulter Marie-Josée Roy au besoin. C'est une très bonne ressource.

Ce sera un plaisir de travailler de plus près avec toi ;)

Mia Larochelle

Gestion de la ressource, Secteur Gaspésie - Bas-Saint-Laurent
Pêches et Océans Canada / Gouvernement du Canada
mia.larochelle@dfo-mpo.gc.ca / Tél. : 418-368-5559/1-877-898-5559

Resource Management – Lower St.Lawrence Area
Fisheries and Oceans Canada / Government of Canada
mia.larochelle@dfo-mpo.gc.ca / Tel. : 418-368-5559/1-877-898-5559

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MISE-À-JOUR : 2017-07-21

Type de pêche	Zones / Classes de permis / Numéro de contingent	Ouverture	Fermeture	Captures (t)	Quota (t)	Résiduel (t)
MORUE (100)						
QIT Janv-mai	4RS3Pn QIT...264 Gaspé (G. Palang) Janv-mai (2711) (10004)	01/04/2017	14/05/2017		5.8	
	4RS3Pn QIT...269 Gaspé (Gr. Autres gr. 2) Janv-mai (2788) (10054)				1.2	
	4RS3Pn QIT...270 Gaspé (Gr. Autres gr. 3) Janv-mai (2789) (10064)				0.0	
QIT Mai-déc	4RS3Pn QIT...262 Gaspé (G. Palang) Mai-déc (2696) (10003)	24/06/2017	31/10/2017		156.5	
	4RS3Pn QIT...269 Gaspé (Gr. Autres gr. 2) Mai-déc (2772) (10053)				4.1	
	4RS3Pn QIT...270 Gaspé (Gr. Autres gr. 3) Mai-déc (2773) (10063)				1.8	
Sentinelle	Sentinelle EM 4RS <65 (344)					
	Sentinelle EF 4T <65 (345)					
	Sentinelle EM 4T <65 (346)					
Bycatch	EF bycatch 4RS < 45 (1280)					
	EF bycatch 4T 45-65 (1281)					
	EF bycatch 4T <45 (1282)					
	EM bycatch 4RS 45-65 (1572)					
	EM bycatch 4T 45-65 (1573)					
	EM pour les crevettiers bycatch 4RS <100 (2784)					
SÉBASTE (120)						
Indicatrice	EM relevé industrie 4RST unité 1 (1070)	15/06/2017	31/12/2017		110.0	
Sentinelle	EM sentinelle 4RST (1210)					
	EF sentinelle 4RST (1211)					
Bycatch	EF bycatch 4RST unité 1 (1187)					
	EM bycatch 4RST (1191)					
	EM bycatch pour crevettier 4RS (348)					
FLÉTAN ATLANTIQUE (130)						
QIT Janv-mai	4RST QIT 45-65 Gaspé (G. Palang) Janv-mai (2712) (13002)	01/04/2017	14/05/2017		8.2	
	4RST QIT 45-65 Gaspé (Gr. Autres gr.2) Janv-mai (2790) (13032)				0.4	
	4RST QIT 45-65 Gaspé (Gr. Autres gr.3) Janv-mai (2792) (13052)				0.0	
	4RST QIT < 45' Gaspé (Turbotiers sous QIT) Janv-mai (2798)(13007)				1.5	
	4RST QIT < 45' Gaspé (AMTG) Janv-mai (2791) (13042)				0.6	

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% du TAC atteint	
23.2%	fermé
1.7%	fermé
0.0%	fermé
19.5%	
13.6%	
2.7%	
7.4%	
210.6%	fermé
22.3%	fermé
0.0%	fermé
351.0%	fermé
0.0%	fermé

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QIT Mai-déc	4RST QIT 45-65 Gaspé (G. Palang) Mai-déc (2697) (13001)	30/05/2017	31/10/2017			219.1	
	4RST QIT < 45' Gaspé (Turbotiers sous QIT) Mai-déc (2794) (13005)					66.3	
	4RST QIT 45-65 Gaspé (Gr. Autres gr.2) Mai-déc (2753) (13031)					19.5	
	4RST QIT 45-65 Gaspé (Gr. Autres gr.3) Mai-déc (2754) (13051)					10.2	
	4RST QIT < 45' Gaspé (AMTG) Mai-déc (2774) (13041)					15.3	
Compétitif	4RST Comp. < 45' Gaspé EF A125 Homardiers Mai-déc (2748) 1ère ouverture	13/07/2017	17/07/2017			43.4	
	4RST Comp. < 45' Gaspé EF A125 Homardiers Mai-déc (2748) 2e ouverture						
	4RST Comp. < 45' Gaspé EF A127 Autres Mai-déc (2750) 1ère ouverture	21/07/2017	26/07/2017			23.4	
	4RST Comp. < 45' Gaspé EF A127 Autres Mai-déc (2750) 2e ouverture						
Touristique	Flétan atlantique EF 4T <45 Gaspé A62 Homardiers - fins touristiques (2779)	24/06/2017	30/09/2017			0.3	
Sentinelle	Flétan Atlantique EF sentinelle 4RST (1149)						
	Flétan Atlantique EM Sentinelle 4RST (1150)						
Bycatch	EF bycatch 4RST <45 (1245)						
	EF bycatch 4RST 45-65 (1247)						
	Flétan Atlantique EM et bycatch 4RST 65-100 (1561)						
	EM bycatch 4RST <65 (278)						
PLIE ROUGE (143)							
Compétitif	Plie rouge EF 4RST A50 Janv-mai (1346)	01/04/2017	14/05/2017				
	Plie rouge EF 4RST A50 Mai-déc (1073)	15/05/2017	31/12/2017				
	Plie rouge EM 4ST <65 (et bycatch) mai-déc (1131)	15/05/2017	31/12/2017				
TURBOT (144)							
QIT Janv-mai	4RST QIT < 65 (Traditionnels) Janv-mai (1010) (14402)	01/04/2017	14/05/2017			69.6	
	4RST QIT < 65 (Traditionnels) Autochtones Janv-mai (1276) (14422)					0.0	
	4RST QIT > 45 Gaspé (Gr. Autres gr.1) Jan-mai (2758) (14442)					10.3	
	4RST QIT > 45 Gaspé (Gr. Autres gr.2) Jan-mai (2759) (14462)					19.7	
QIT Mai-déc	4RST QIT < 65 (Traditionnels) Mai-déc (262) (14401)	30/05/2017	31/10/2017			1,867.1	
	4RST QIT < 65 (Traditionnels) Autochtones Mai-déc (1275) (14411)					157.8	
	4RST QIT > 45 Gaspé (Gr. Autres gr.1) Mai-déc (2751) (14441)					34.1	
	4RST QIT > 45 Gaspé (Gr. Autres gr.2) Mai-déc (2752) (14461)					26.0	
Compétitif	4RST Comp. < 45 EF Gaspésie A211 Mai-déc (2719) 1ere ouverture	23/05/2017	15/06/2017			166.3	
	4RST Comp. < 45 EF Gaspésie A211 Mai-déc (2719) 2e ouverture	23/06/2017	17/07/2017			63.1	
Sentinelle	Turbot EF sentinelle 4RST (1163)						
	Turbot EM sentinelle 4RST (1164)						

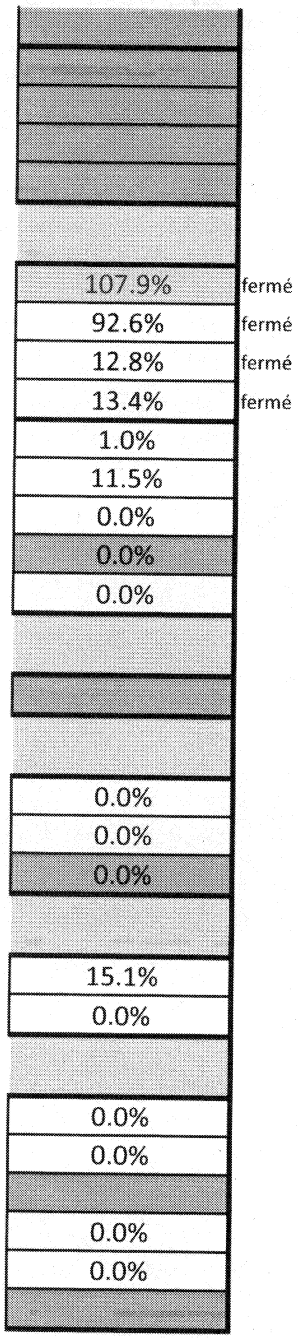
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93.1%	fermé	LMIC	800 kg	61	pêcheurs
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70.7%	fermé				
0.0%	fermé				
101.7%	fermé				
85.4%	fermé				
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17.0%					
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20.4%					
66.9%	fermé	LMIC	8.177 t	21	pêcheurs
59.1%	fermé	LMIC	5.000 t	15	pêcheurs

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	Turbot EF pêche scientifique 4RST <65 (1591)					
Bycatch	EF bycatch 4RS <65 (1519)					
	EM bycatch 4RST 65-100' (1562)					
	EF bycatch 4T <65 (2538)					
	EM bycatch 4RST <65 (350)					
HARENG (200)						
Printemps	Printemps 16A (1er avril au 31 mai)	01/04/2017	31/05/2017		8.0	
	Printemps 16B (1er avril au 31 mai)				321.0	
	Printemps - Petit senneur - zone 16B				16.0	
	Printemps 16A-G (1er juin au 30 juin)	01/06/2017	30/06/2017		62.0	
Automne	Automne - zone 16A	01/07/2017	31/12/2017		43.0	
	Automne - zone 16B - Pêche hâtive (1er juillet au 31 juillet)		31/07/2017		335.0	
	Automne - zone 16B - Pêche à la rave	21/08/2017	13/09/2017		11,954.0	
	Automne - zone 16B - Pêche tardive				0.0	
	Automne - Petit senneur - zone 16B	01/07/2017	13/09/2017		367.0	
MAQUEREAU (250)						
Compétitif	Maquereau zone 16	15/05/2017	31/12/2017			
THON ROUGE (254)						
Compétitif	Thon rouge - Quota du Québec				21.4	
	Thon rouge - Quota du Mexique				28.2	
Touristique	Thon rouge avec remise à l'eau	15/07/2016	01/10/2016		10.0	
MACTRE DE STIMPSON (608)						
QIT	Mactre de Stimpson - Zone 1A (2714) (60815)	10/06/2017	10/11/2017		80.0	
	Mactre de Stimpson - Zone 1B (2715) (60816)				68.6	
PÉTONCLE (612)						
Compétitif	Sous-zone 17A1	01/04/2017	30/11/2017		90.5	
	Sous-zone 17A2				33.2	
	Sous-zone 18B1	01/05/2017	30/09/2017			
	Sous-zone 18B2 (Anticosti)	01/04/2017	30/11/2017		132.8	
	Sous-zone 18C				91.3	
	Sous-zone 19A	01/05/2017	30/09/2017			

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Touristique	Sous zone 19A - Pêche à des fins touristiques (2778)				144,000.0
	BUCCIN (615)				
Compétitif	Zone 1 (101)	31/03/2017	22/09/2017		491.0
	Zone 2 (102)		08/09/2017		109.0
	Zone 11 (111)	01/04/2017	30/09/2017		32.0
	Zone 12 (112)		21/07/2017		44.7
	Zone 13 (113)		30/09/2017		75.4
	Zone 14 (114)				
	CONCOMBRE (619)				
Compétitif	Zone A (plongée)	15/07/2017	30/11/2017		143.0
	Sous-zone B1 (plongée) ()	20/07/2017	30/11/2017		62.0
	Sous-zone B2 (plongée) ()				69.0
	Sous-zone B3 (plongée) ()				42.0
	Sous-zone B4 (plongée) ()				46.0
	Sous-zone B5 (plongée) ()				104.0
	Total de la zone B (plongée)				**323.0**
	Sous-zone C1 (plongée) ()	20/07/2017	30/11/2017		36.0
	Sous-zone C2 (plongée) ()				14.0
	Sous-zone C3 (plongée) ()				38.0
	Sous-zone C4 (plongée) ()				9.0
	Sous-zone C5 (plongée) ()				15.0
	Sous-zone C6 (plongée) ()				15.0
	Total de la zone C (plongée)				**127.0**
	Sous-zone B1 (drague) (2649)	20/07/2017	27/09/2017		45.0
	Sous-zone B2 (drague) (2649)				90.0
	Sous-zone B3 (drague) (2649)				32.0
	Sous-zone B4 (drague) (2649)				37.0
	Sous-zone B5 (drague) (2649)				121.0
	Total de la zone B (drague)				**325.0**
	Sous-zone C1 (drague) (2647)	20/07/2017	27/09/2017		25.0
	Sous-zone C2 (drague) (2647)				41.0
	Sous-zone C3 (drague) (2647)				63.0
	Sous-zone C4 (drague) (2647)				38.0

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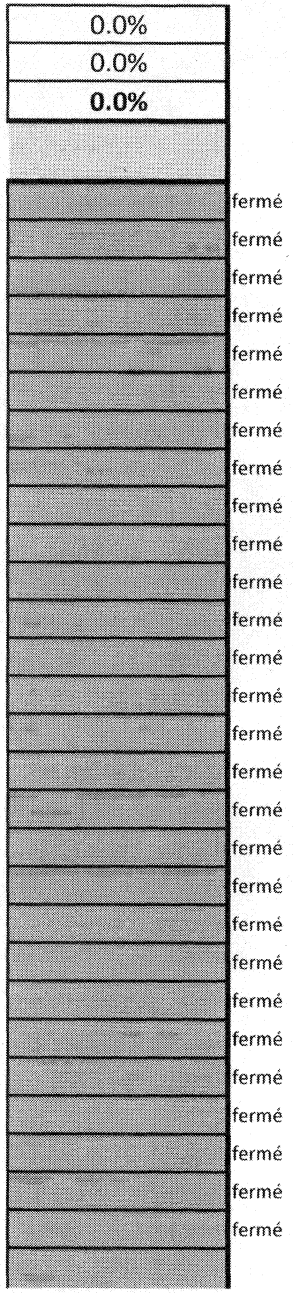
Quantité exprimée en nombre d'individus et non en kg

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	Sous-zone C5 (drague) (2647)				81.0	
	Sous-zone C6 (drague) (2647)				102.8	
	Total de la zone C				**350.8**	
	HOMARD (700)					
	Zone 17B	24/04/2017	23/07/2017			
	Zone 19A2					
	Zone 19A3	29/04/2017	08/07/2017			
	Zone 19B					
	Zone 19C1	13/05/2017	22/07/2017			
	Zone 19C2	29/04/2017	08/07/2017			
	Zone 20A1					
	Zone 20A2					
	Zone 20A3					
	Zone 20A3A					
	Zone 20A4					
	Zone 20A5					
	Zone 20A6					
	Zone 20A7					
Compétitif	Zone 20A8					
	Zone 20A9					
	Zone 20A9A	29/04/2017	06/07/2017			
	Zone 20A10					
	Zone 20B1					
	Zone 20B2					
	Zone 20B3					
	Zone 20B4					
	Zone 20B5					
	Zone 20B6					
	Zone 20B7					
	Zone 20B8					
	Zone 21A					
	Zone 21B	12/05/2017	19/07/2017			
	Zone 21B (Pêche alimentaire)					

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CREVETTE (702)							
Compétitif	Anticosti - Allocation compétitive (1323)	01/04/2017	31/12/2017			479.0	
	Estuaire - Allocation compétitive (1325)					88.4	
	Sept-Iles - Allocation compétitive (1322)					889.1	
	Esquiman - Allocation compétitive ()					3.1	
QIT	Esquiman QIT - Groupe A (216) (70240)	01/04/2017	31/12/2017			419.1	
	Anticosti QIT - Groupe B (218) (70202)	01/04/2017	31/12/2017			2,859.7	
	Anticosti QIT - Groupe B Autochtones (1142) (70212)					1,147.9	
	Estuaire QIT - Groupe B (220) (70205)	01/04/2017	31/12/2017			554.9	
	Estuaire QIT - Groupe B Autochtones (1144) (70215)					181.2	
	Sept-Îles QIT - Groupe B (221) (70201)	01/04/2017	31/12/2017			5,229.6	
	Sept-Iles QIT - Groupe B Autochtones (1145) (70211)					2,332.7	
	Esquiman QIT - Groupe B (219)	01/04/2017	31/12/2017			0.0	
	Esquiman QIT - Groupe B Autochtones (1143)					0.0	
CRABE COMMUN (704)							
Compétitif	Gaspésie 17C1	05/08/2017	29/09/2017			75.0	
	Gaspésie 12D1						
	Gaspésie 12D2						
	Gaspésie 12D3						
QI	Gaspésie 12D4 - QI (2804) (70416)	05/08/2017	29/09/2017			30.8	
	Gaspésie 12D5 - QI (2805) (70417)					35.2	
	Gaspésie 12D6 - QI (2806) (70418)					45.1	
	Gaspésie 12D7 - QI (2807) (70419)					37.4	
Compétitif	Gaspésie 12F	05/08/2017	29/09/2017			81.5	
	Gaspésie 12O						
	Gaspésie 12Q					77.5	
	Gaspésie 12W						
	Gaspésie 12X						
	Gaspésie 12Y	05/08/2017	29/09/2017			61.5	
	Gaspésie 12Z					101.5	
CRABE DES NEIGES (705)							
	Zone 12 (175) (70501)					6,960.3	

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QIT	Zone 12 Autochtones (1262) (70532)	25/04/2017	25/07/2017			2,649.6	
	Zone 12 Sous-groupe G1 (1267) (70538)					36.0	
	Zone 12 Sous-groupe G3 (2785) (70586)					450.0	
	Zone 12 Sous-groupe G4 (2786) (70587)					448.0	
	Zone 12 Sous-groupe G6 (1620) (70555)					344.3	
	Zone 12A (1327) (70534)	28/03/2017	12/06/2017			90.8	
	Zone 12A Autochtones (1352) (70544)					6.9	
	Zone 12B (1609) (70549)	29/03/2017	01/07/2017			131.3	
	Zone 12B Autochtones (1343) (70541)					21.9	
	Zone 12E (1354) (70547)	20/04/2017	14/07/2017			24.9	
	Zone 12F - Allocations temporaires (1565) (70545)	19/04/2017	14/07/2017			12.2	
	Zone 16 Groupe A (173) (70502)	08/04/2017	14/07/2017			171.2	
	Zone 17 Groupe A (174) (70503)	29/03/2017	24/06/2017			905.0	
	Zone 17 Autochtones (1264) (70533)					148.2	
	Zone 17 NA Groupe B (2729) (70575)					183.7	
OURSIN (909)								
Printemps	Printemps (plongée exploratoire) (Roger Coulombe) - Zone 08D	01/04/2017	31/05/2017				
	Printemps (plongée exploratoire) (Malécites) - Zone 08E					110.7	
	Printemps (plongée exploratoire) (Malécites) - Zone 08E1					53.7	
Automne	Automne (plongée exploratoire) (Roger Coulombe) - Zone 08D	01/08/2017	31/12/2017				
	Automne (plongée exploratoire) (Malécites) - Zone 08E					49.6	
	Automne (plongée exploratoire) (Malécites) - Zone 08E1					85.0	

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97.7%	fermé
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101.6%	fermé
100.4%	fermé
98.5%	fermé
101.4%	fermé
100.5%	fermé
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s.19(1)

Patterson, Pauline

De: Larochelle, Mia
Envoyé: August-01-17 9:04 AM
À: [redacted]
Cc:
Objet: Pêche compétitive du flétan atlantique - EF < 13,71 m de la Gaspésie - Groupe des Autres // Atlantic halibut competitive fishery - Gaspé FG < 13.71 m - Others group

Bonjour,

Veuillez noter qu'en raison de l'atteinte du TAC lors de la première ouverture de la pêche du flétan atlantique pour la flottille avec EF < 13,71 de la Gaspésie du groupe des *Autres,* le ministère ne procèdera pas à une deuxième ouverture de cette pêche.

Bon après-midi,

Hello,

Please note that due to reached of the TAC at the first opening of the Atlantic halibut fishery for the Gaspé fixed gear fleet of less than 13.71 m of the *Others* group, the Ministry will not proceed with a second opening of this fishery.

Have a good afternoon,

Mia Larochelle

Gestion de la ressource, Secteur Gaspésie - Bas-Saint-Laurent
Pêches et Océans Canada / Gouvernement du Canada
mia.larochelle@dfo-mpo.gc.ca / Tél. : 418-368-5559/1-877-898-5559

Resource Management – Lower St.Lawrence Area
Fisheries and Oceans Canada / Government of Canada
mia.larochelle@dfo-mpo.gc.ca / Tel. : 418-368-5559/1-877-898-5559

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Notice to Fish Harvesters

COMPETITIVE EXPLORATORY FISHERY
SEA CUCUMBER - GASPÉ
AREAS A, B AND C
2017-2019 SEASONS

GASPÉ – July 19, 2017

Fisheries and Oceans Canada - Quebec Region is announcing the opening of the exploratory fishery for sea cucumber under competitive regime in area A, B and C.

Fishing will be open from July 20 until September 27, 2017. The licence holders/vessel operators will be allowed to carry out their harvesting activities during the 10 weeks of the season. The opening period of the diving fishery will be re-evaluated before the beginning of the 2018 season. Likewise, the closing date of the drag fishery will be reassessed in relation to bycatch monitoring during the Fishing season 2017.

The Total allowable catch (TAC) were reassessed in 2017 taking into account the exact surfaces of the harvested areas and the recommendations made during the scientific pear review of the sea cucumber in June 2017. A 5% exploitation rate will henceforth be applied to diving fishing.

For 2017-2019, the TAC for the diving fishery will be 143 t in Area A, 323 t in Area B and 127 t in Area C. TACs for dredging fishery will be 325 t in Area B and 352 t in Area C.

From 2018, the TAC of areas B and C will be adjusted in the event of a significant reduction in catch per unit effort (CPUE). A decrease in CPUE of 20% or more in relation to the average or reference value of the area (area B: 2016 and area C: 2015-2016) will result in an equivalent decrease in the TAC. In case of increase in PUE, no adjustment to the TAC will be made before the next stock assessment scheduled for 2020.

The use of a drag will be authorized in 2017 and specifications of the drag will be the same as those applied in 2016. A working group composed of industry and DFO will be working from 2017 on the development of an eco-responsible drag so that all licence holders carry out sea cucumber fishing with a gear with limited impacts on the seabed by 2020. Beginning in 2018, part of the TAC will be available only to licence holder using an eco-responsible drag.

The Dockside Monitoring Program will remain mandatory for 100% of landings.

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For the 2017 season, the minimum participation criteria are: minimum landings of 25 t by licence holder per season, completion of post-season surveys conducted as part of the monitoring of the short-, medium- and long-term impacts of dredging on the sea cucumber and its habitat, the completion of the project to assess the feasibility of exploratory exploitation of sea cucumber through diving for licence holders that have not yet done so in 2015 or 2016 and participation in the working group on the development of an eco-responsible fishing gear. From the 2018 season, the participation criteria will also include minimum sea cucumber landings during diving.

All management measures are available in the *2017-2019 Sea Cucumber Conservation Harvesting Plan* approved the July 19, 2017.

To obtain *Conditions of licence*, fishers must access the National Online Licensing System. For National Online Licensing System assistance, please contact customer support by phone at 1-877-535-7307 or by email at fishing-peche@dfo-mpo.gc.ca.

For additional information
Please visit our website at the following address: http://www.qc.dfo-mpo.gc.ca/peches-fisheries/commerciale-commercial/index-eng.html

Resource management
Gaspé - Lower St. Lawrence Area
Fisheries and Oceans Canada
418-368-5559 / Toll free : 1-877-898-5559

Note: In case of discrepancies between the English and the French versions, the latter prevail

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Pêches et Océans Canada | Fisheries and Oceans Canada

Quebec Region – Fisheries Management

Conservation Harvesting Plan

SEA CUCUMBER
EXPLORATORY FISHERY
AREAS A, B AND C (GASPÉ)
2017-2019

Approved July 19, 2017

1. Application

This *Conservation Harvesting Plan* (CHP) applies to Sea Cucumber fisheries (*Curcumaria frondosa*) in areas A, B and C **from July 20 to December 31, 2017.**

Sea Cucumber fishing in the Gaspé is a phase II exploratory fishing – commercial and stock assessment stage (see *New Emerging Fisheries Policy*, 2001), under a competitive regime.

It should be noted that this CHP is subject to change at any time.

2. Fishing areas

Based on valid *Licence Conditions* and subject to a *Variation Order*, the three fishing areas located on the north side of Gaspé are defined as follows:

- **Area A:**
  Area between the straight lines connecting the following coordinates, in the order listed, and closing off at the coast:

49° 07' 47"	N	66° 33' 00"	W
49° 12' 51"	N	66° 33' 00"	W
49° 18' 18"	N	66° 00' 50"	W
49° 13' 24"	N	66° 00' 50"	W

  Diving must be done at a depth of less than 18 metres below chart datum.

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- **Area B:**
  Area between the straight lines connecting the following coordinates, in the order listed, and closing off at the coast:

49° 18' 18"	N	66° 00' 50"	W
49° 13' 24"	N	66° 00' 50"	W
49° 13' 35"	N	65° 07' 58"	W
49° 17' 37"	N	65° 07' 08"	W

Sub-areas B-1 to B-5 are defined as follows:
Area between the straight lines connecting the following coordinates, in the order listed, and closing off at the coast:

Sub-area B-1

49° 13' 24"	N	66° 00' 50"	W
49° 18' 18"	N	66° 00' 50"	W
49° 19' 00"	N	65° 56' 30"	W
49° 18' 51"	N	65° 50' 00"	W
49° 14' 00"	N	65° 50' 00"	W

Sub-area B-2

49° 14' 00"	N	65° 50' 00"	W
49° 18' 51"	N	65° 50' 00"	W
49° 18' 37"	N	65° 40' 00"	W
49° 14' 56"	N	65° 40' 00"	W

Sub-area B-3

49° 14' 56"	N	65° 40' 00"	W
49° 18' 37"	N	65° 40' 00"	W
49° 18' 20"	N	65° 30' 00"	W
49° 15' 11"	N	65° 30' 00"	W

Sub-area B-4

49° 15' 11"	N	65° 30' 00"	W
49° 18' 20"	N	65° 30' 00"	W
49° 18' 00"	N	65° 20' 00"	W
49° 15' 05"	N	65° 20' 00"	W

Sub-area B-5

49° 15' 05"	N	65° 20' 00"	W
49° 18' 00"	N	65° 20' 00"	W
49° 17' 37"	N	65° 07 '08"	W
49° 13' 35"	N	65° 07' 58"	W

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Diving must be done at a depth of less than 18 metres below chart datum.

Dredge fishing must be done at depths ranging from 32 to 42 metres below chart datum.

- **Area C:**
  Area between the straight lines connecting the following coordinates, in the order listed, and closing off at the coast:

49° 17' 37"	N	65° 07' 08"	W
49° 13' 35"	N	65° 07' 58"	W
48° 51' 22"	N	64° 12' 02"	W
49° 02' 00"	N	64° 08' 30"	W

Sub-areas C-1 to C-6 are defined as follows:
Area between the straight lines connecting the following coordinates, in the order listed, and closing off at the coast:

Sub-area C-1			
49° 13' 35"	N	65° 07' 58"	W
49° 17' 37"	N	65° 07' 08"	W
49° 17' 22"	N	65° 00' 00"	W
49° 12' 56"	N	65° 00' 00"	W
Sous-zone C-2			
49° 12' 56"	N	65° 00' 00"	W
49° 17' 22"	N	65° 00' 00"	W
49° 17' 06"	N	64° 50' 00"	W
49° 10' 41"	N	64° 50' 00"	W
Sub-area C-3			
49° 10' 41"	N	64° 50' 00"	W
49° 17' 06"	N	64° 50' 00"	W
49° 17' 00"	N	64° 44' 00"	W
49° 15' 20"	N	64° 40' 00"	W
49° 07' 18"	N	64° 40' 00"	W
Sub-area C-4			
49° 07' 18"	N	64° 40' 00"	W
49° 15' 20"	N	64° 40' 00"	W
49° 11' 08"	N	64° 30' 00"	W
49° 03' 47"	N	64° 30' 00"	W

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Sub-area C-5			
49° 03' 47"	N	64° 30' 00"	W
49° 11' 08"	N	64° 30' 00"	W
49° 06' 56"	N	64° 20' 00"	W
48° 57' 57"	N	64° 20' 00"	W
Sub-area C-6			
48° 57' 57"	N	64° 20' 00"	W
49° 06' 56"	N	64° 20' 00"	W
49° 02' 00"	N	64° 08' 30"	W
48° 51' 22"	N	64° 12' 02"	W

Diving must be done at a depth of less than 18 metres below chart datum.

Dredge fishing must be done at depths ranging from 32 to 42 metres below chart datum.

Changing sub-areas

The presence of an on-board observer is required when fishing is carried out in more than one sub-area during the same fishing trip. A different on-board logbook should be used for every change in sub-area.

3. Permanent closure of areas

Sea Cucumber fishing is prohibited in five protected areas. The coordinates of these areas are indicated on the Sea Cucumber fishing *Licence conditions*. Here are the locations of these protected areas:

- PA-2: inside area A
- PA-3: located inside sub-area B-1
- PA-4: located inside sub-areas B-3 and B-4
- PA-5: located inside sub-areas C-2 and C3
- PA-6: located inside sub-areas C-5 and C6

These protected areas are defined as the area covered between the straight lines connecting the following coordinates, in the order listed, and closing off at the coast:

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PA-2			
49° 09' 34"	N	66° 25' 00"	W
49° 14' 14"	N	66° 25' 00"	W
49° 14' 54"	N	66° 21' 00"	W
49° 10' 23"	N	66° 21' 00"	W
PA-3			
49° 13' 25"	N	66° 00' 50"	W
49° 18' 18"	N	66° 00' 50"	W
49° 19' 00"	N	65° 56' 30"	W
49° 18' 57"	N	65° 54' 35"	W
49° 13' 37"	N	65° 54' 35"	W
PA-4			
49° 15' 15"	N	65° 35' 30"	W
49° 18' 31"	N	65° 35' 30"	W
49° 18' 12"	N	65° 26' 00"	W
49° 15' 12"	N	65° 26' 00"	W
PA-5			
49° 12' 07"	N	64° 54' 57"	W
49° 17' 09"	N	64° 53' 02"	W
49° 17' 06"	N	64° 50' 00"	W
49° 17' 00"	N	64° 44' 00"	W
49° 10' 27"	N	64° 48' 54"	W
PA-6			
49° 00' 34"	N	64° 23' 57"	W
49° 05' 31"	N	64° 16' 42"	W
49° 04' 28"	N	64° 14' 15"	W
48° 59' 30"	N	64° 22' 19"	W

Sites that are closed for post-season surveying and due to the impacts of fishing on fish habitat are also closed to fishing between the following longitudes:

Closed site 1			
49° 14' 47"	N	65° 41' 00"	W
49° 18' 38"	N	65° 41' 00"	W
49° 18' 37"	N	65° 40' 00"	W
49° 14' 56"	N	65° 40' 00"	W

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Closed site 2			
49° 15' 09"	N	65° 36' 45"	W
49° 18' 32"	N	65° 36' 45"	W
49° 18' 31"	N	65° 36' 00"	W
49° 15' 13"	N	65° 36' 00"	W
Closed site 3			
49° 15' 10"	N	65° 26' 00"	W
49° 18' 12"	N	65° 26' 00"	W
49° 18' 11"	N	65° 25' 15"	W
49° 15' 11"	N	65° 25' 15"	W
Closed site 4			
49° 12' 21"	N	64° 55' 45"	W
49° 17' 13"	N	64° 55' 45"	W
49° 17' 12"	N	64° 55' 00"	W
49° 12' 07"	N	64° 55' 00"	W
Closed site 5			
49° 04' 36"	N	64° 32' 15"	W
49° 12' 05"	N	64° 32' 15"	W
49° 11' 46"	N	64° 31' 30"	W
49° 04' 28"	N	64° 31' 30"	W
Closed site 6			
49° 01' 56"	N	64° 26' 45"	W
49° 09' 46"	N	64° 26' 45"	W
49° 09' 27"	N	64° 26' 00"	W
49° 01' 27"	N	64° 26' 00"	W

In the event that a closed site reserved for post-season surveys is dredged again, the biomass monitoring analyses would become invalid. **DFO would then definitively exclude the licence holder/vessel operator from this fishery.**

4. Fishing seasons

The fishing seasons below are in effect for the validity period of this CHP. They represent the maximum fishing periods, subject to, among other things, specific orders and closure periods. As such, open periods will be re-evaluated annually and could vary depending on particular circumstances and on fisheries management considerations, including requests from the industry and the announcement of the total allowable catches (TAC). For example, the opening period of the diving fishery will be re-

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evaluated before the beginning of the 2018 season. Likewise, the closing date of the dredge fishery will be reassessed in relation to bycatch monitoring during the Fishing season 2017.

- **Area A**

Diving Fishing: from July 19 to November 30.

- **Areas B and C**

Diving Fishing: from July 20 to November 30.

Dredge fishing: from July 20 to September 27, that is:

- From July 20 to August 15: fishing is authorized from 5:00 am to 8:00 pm
- From August 16 to September 27: fishing is authorized from 6:00 am to 6:30 pm

5. Allocations

The method of calculating biomass and TAC used in 2015 has been the subject of a formal validation upon the scientific workshop in the Fall of 2015. The TAC were reassessed in 2017 taking into account the exact surfaces of the harvested areas and the recommendations made during the scientific pear review of the sea cucumber in June 2017. A 5% exploitation rate will henceforth be applied to diving fishing.

For the 2017 season, TAC in the table below will apply:

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TAC per fishing area, sub-area and fishing depth, in tonnes (t)

Area	Sub-area	TAC (t) 0-18 m	TAC (t) 32-42 m	TAC (t) TOTAL
Area A		**143**	**0**	**143**
Zone B	B-1	62	45	107
	B-2	69	90	159
	B-3	42	32	74
	B-4	46	37	83
	B-5	104	121	225
Area B Total		**323**	**325**	**648**
Area C	C-1	36	25	61
	C-2	14	41	55
	C-3	38	63	101
	C-4	9	38	47
	C-5	15	81	96
	C-6	15	102,787(1)	117.787
Area C Total		**127**	**350,787**	**477.787**

(1) The TAC for Subarea C-6 (104 tonnes) was adjusted in 2017 to reconcile the 1,213-tonne overtaking in 2016.

From 2018, the TAC of areas B and C will be adjusted in the event of a significant reduction in catch per unit effort (CPUE). A decrease in CPUE of 20% or more in relation to the average or reference value of the area (area B: 2016 and area C: 2015-2016) will result in an equivalent decrease in the TAC. In case of increase in PUE, no adjustment to the TAC will be made before the next stock assessment scheduled for 2020. In the event of a drastic drop in PUE, a working group will be established.

At the request of the licence holders, Fisheries and Oceans Canada will not automatically stop fishing in cases where the TAC is almost reached. If the TAC is exceeded, the reconciliation of quota will be applied and the TAC of the zone will be reduced by the equivalent of the excess or excesses in the following season.

6. Management regime

Exploratory fishing under competitive regime.

7. Fishing gear

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- **Area A**

Underwater diving with a maximum of five divers.

- **Areas B and C**

Licence holders who have not yet participated in an independent protocol to demonstrate the feasibility of diving in their fishing area will have to do so by 2017. Data analysis is the responsibility of the licence holders. The data and the final report will have to be submitted to Fisheries and Oceans Canada by January 31, 2018 at the latest.

Also, the use of a drag will still be allowed in 2017. However, a working group composed of representatives from industry and DFO will have to work from 2017 on the development of an eco-responsible dredge so that all licence holders carry out sea cucumber fishing with a gear with limited impacts on the seabed by 2020.

Only one drag per licence holder/vessel operator is authorized. The drag used for fishery or aboard the vessel must be identified by a valid identification number given by Fisheries and Oceans Canada. This number must appear in relief on the lateral part of the drag. Each figure of the number must have a minimal height of 75 mm and a minimal width of 25 mm.

Any changes to the design of the gear intended to change its performance must be fully documented and beforehand approved by Fisheries and Oceans Canada.

In addition, the licence holder/vessel operator must verify the physical state of the drag on a regular basis (gear matrix and mouth) and quickly repair any damage to maintain the drag's selectivity.

At all times, the dredging speed must be less than 3 knots.

The drag authorized for this fishing season is installed on runners and is comprised of a ventral side (mouth, chain matrix and chafing mat), dorsal side (net) and basket (net). Should fishing be continued with the help of the drag in 2017, the specifications of the gear could be modified based on recommendations arising from the results of the *Scientific advice* requested by Fisheries management branch in 2015.

- Ventral side:
    - Mouth: Maximum width of 3.65 metres with vertical grates situated in front of the mouth at maximum intervals of 0.22 metres. No element that increases penetration of the mouth into the substrate should be added.

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- Chain matrix: 0.90 metres long and same width as the mouth. Consists of mesh of a maximum of 13 mm forming square openings a minimum of 0.15 x 0.15 metres.
- Chafing mat: 2.60 metres long, with a width equal to or narrower than the mouth. Consists of 100 mm diameter metal rings, attached together by small, wire rings and a maximum of four rubber washers.

- Dorsal side: 0.90 metres long, extending the full width of the drag. Consists of a mesh polyethylene net, the total length of the net forming the two sides next to a single mesh measuring a minimum of 80 mm (not including the knots at the two ends).

- Basket:
  - Maximum length of 2.60 metres, with a width equal to or narrower than the mouth.
  - Consists of a mesh polyethylene net, the total length of the net forming the two sides next to a single mesh measuring a minimum of 80 mm (not including the knots at the two ends), with the end of the basket consisting of a polyethylene net with square mesh, the total length of the net forming the two sides next to a single mesh measuring a minimum of 80 mm (not including the knots at the two ends), over a length of at least 1 metre.
  - The clap must be designed and installed so as not to come into contact with the substrate.

- Rollers: located at the front of the mouth, with the rear end passing under the mouth, and disposed at maximum intervals of 0.40 m perpendicular to the mouth. Consists of smooth slats curved in the opposite direction of the bottom at the anterior end with a minimum length of 0.90 m, with the exception of two lateral rollers with a minimum length of 0.70 m.

8. Hail out

Licence holders/vessel operators are required to contact the vessel hail-out system before 19:00 the day before each fishing trip.

9. At-sea observers

Industry-funded at-sea observer coverage applies to this fishery at a minimum of 100% of fishing trips. However, if the vessel used has a working vessel monitoring system that is approved by DFO and for which the maximum interval for recording the position is set

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at 5 minutes, the minimum coverage for fishing trips carried out with this vessel is 30% on a random basis during the dredge fishery.

Minimum coverage of diving fishing expeditions will be discussed with the licence holders.

Prior to starting a fishing trip, the licence holder/vessel operator must have an agreement with a company designated by the Quebec Region of DFO, whose list is available at the following address: http://www.dfo-mpo.gc.ca/fm-gp/sdc-cps/nir-nei/obs-contact-eng.htm, with regard to at-sea observer coverage.

10. Dockside monitoring

Before the beginning of a fishing trip, the licence holder/vessel operator must have an agreement relative to dockside monitoring and hail-in with a dockside monitoring company legally designated by DFO whose list is available at the following address: http://www.qc.dfo-mpo.gc.ca/peches-fisheries/surveillance/programme-program-eng.html.

The Dockside Monitoring Program (DMP) is mandatory for 100% of landings.

Verified landing weight must be recorded within three hours after arriving at the dock.

Weighing of landings must be done using a fixed landed scale, in kg.

11. Combined form/Logbook/Purchase slip

Fishermen must acquire their booklet of Combined Forms from a prequalified supplier, identified by DFO, whose list is available at the following address: http://www.dfo-mpo.gc.ca/fm-gp/sdc-cps/nir-nei/log-suppliers-eng.htm, completed it according to the instructions specified in the document and provide it to the dockside monitoring company representative at the time of weighing.

The logbook portion of this form must be properly completed each fishing day before docking.

When a separate purchase slip is used, it must be completed by the buyer and submitted to DFO no later than ten days after landing.

Due to the exploratory nature of this fishery, all licence holders/vessel operators consent to DFO sharing and/or publishing their catch data.

12. Vessel Monitoring System

An active vessel monitoring system approved by DFO is mandatory.

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The maximum interval for recording the position is set at five minutes. The licence holder/vessel operator can extend the interval for recording the position to 15 minutes only if an on-board observer is present.

Transmitting the data, including the vessel's position, must be done at a maximum interval of 60 minutes.

13. Bycatch protocol

A scientific bycatch monitoring protocol will be applied by at-sea observers. If bycatch rates are consistently too high, the fishery could be closed immediately.

All bycatch must be returned to the water and released in the exact capture location and, if the fish is still alive, with as little harm as possible. In addition, the information must be recorded in the relevant section of the logbook.

14. Small fish protocol

Not applicable.

15. Catch monitoring and test fisheries

Not applicable.

16. Vessel

- **Area A**

  Vessels with an LOA less than 15.24 m may be used, regardless of cubic number.

- **Areas B and C**

  Vessels with an LOA less than 19.81 m may be used, regardless of its cubic number.

Lease of a vessel registered outside DFO – Quebec Region – Gaspé Lower St. Lawrence area (commercial fishing licence) is not permitted. Licence holders/vessel operators are authorized to use:

a) a vessel registered with the DFO – Quebec Region - Gaspé Lower St. Lawrence area or
b) a vessel not registered with the DFO – Quebec Region - Gaspé Lower St. Lawrence area but is owned, since April 1st 2016, by a person who has had his main residence in the Quebec Region since January 1st of the current year and

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that has not participated for the current year in commercial fishing activities in another Region.

17. Partnership

Not applicable.

18. Participation criteria

As for all emerging fisheries, licence holders/vessel operators must demonstrate that they have fully participated in developing the fishery by complying with the minimum, pre-established participation criteria before a permit can be re-issued, if applicable.

The minimum participation criteria are: minimum landings of 25 t by licence holder per season, completion of post-season surveys conducted as part of the monitoring of the short-, medium- and long-term impacts of dredging on the sea cucumber and its habitat, as described in Appendix, the completion of the project to assess the feasibility of exploratory exploitation of sea cucumber through diving for licence holders that have not yet done so in 2015 or 2016 and participation in the working group on the development of an eco-responsible fishing gear.

From the 2018 season, the participation criteria will also include minimum sea cucumber landings during diving.

In the event that a licence holder is not complying with the established participation criteria, the exploratory licence would not be re-issued the following year.

19. Post-season inventory

The catch achieved in each sub-area during the post-season surveys is deducted from the TAC. The results of these inventories are presented in an appendix.

The annual report of the post-season inventory is the responsibility of the licence holders. The final report must be submitted to DFO no later than January 31 of the year following the completion of the inventory.

20. Conversion ratio

Not applicable.

21. Quota reconciliation

Quota reconciliation provides that any quota overruns in a given year, whether under an individual quota regime or as part of competitive fishery, will be accounted for in the quota of the following fishing season. For example, quota overruns incurred during a

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management year will be deducted from the licence holder or the fleet's quotas for the following season on a one-for-one basis.

22. Other management measures

- **Minimum size**

The minimum size is set at 114 mm, which is the smallest size of sea cucumber caught at all times.

- **Simultaneous fisheries**

Simultaneous fishing of sea cucumber and any other species during the same fishing trip is not permitted.

However, simultaneous fishing of sea cucumber and snow crab, whelk, sea urchins, herring or mackerel during separate fishing trips is permitted.

However, fishers must hold valid *Conditions of licence* for these simultaneous fisheries and are obligated to lift each of their fishing gears at least every 72 hours.

23. *Species at Risk Act*

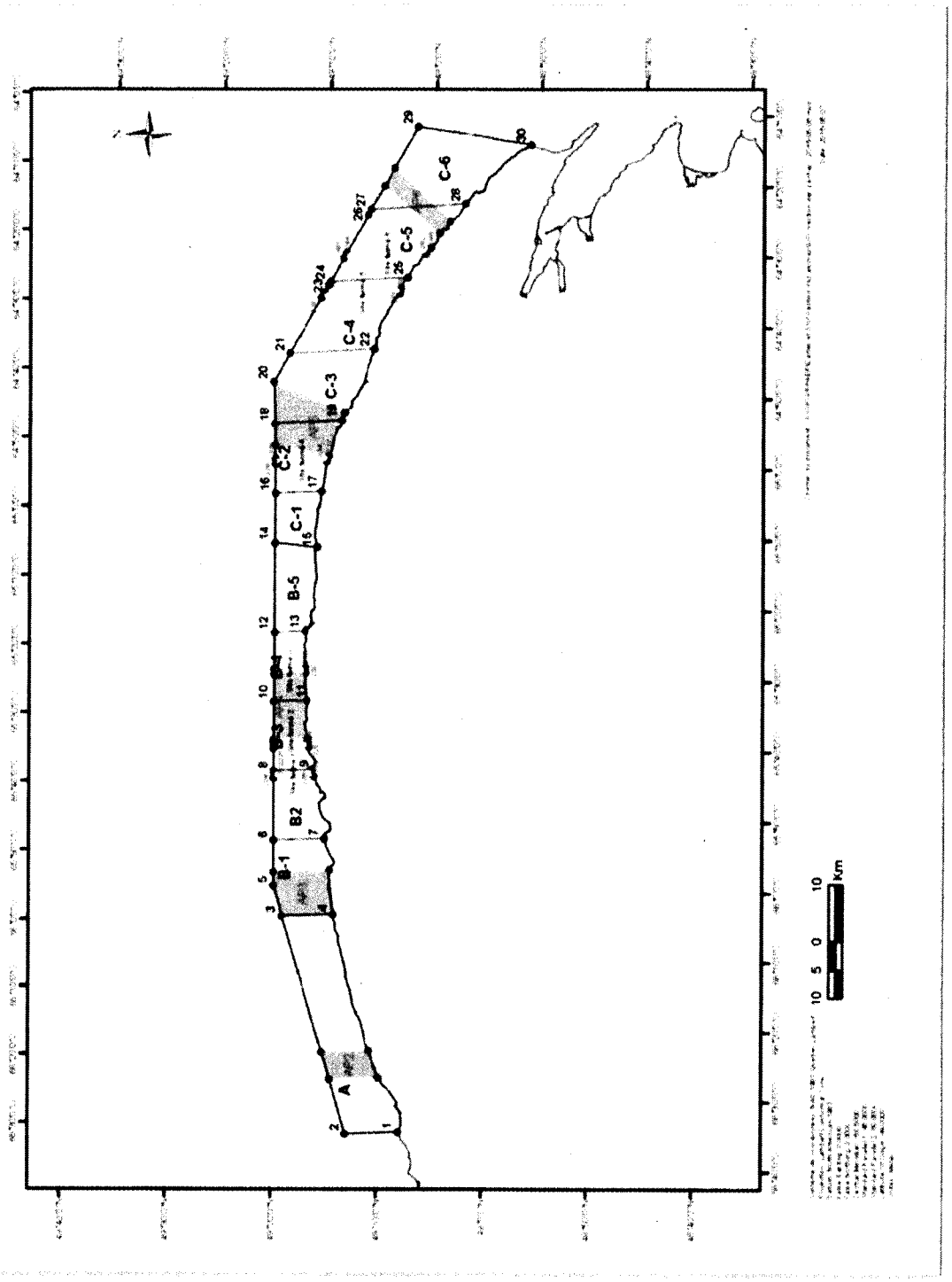
Pursuant to the *Species at Risk Act* (*SARA*), no person shall kill, harm, harass, capture, take, possess, collect, buy, sell or trade an individual or any part or derivative of a wildlife species designated as extirpated, endangered or threatened.

At the time this management plan was promulgated, the species present in the Gulf of St. Lawrence and the Atlantic and targeted by these measures were the following: spotted wolffish, northern wolffish, leatherback turtle, striped bass (St. Lawrence Estuary population) and White shark. Other species may be added over the course of the year.

All bycatches of species identified above must be returned to the water and released in the exact capture location and, if the fish is still alive, with as little harm as possible. In addition, information regarding interactions with species at risk, including the species mentioned above as well as the North Atlantic right whale, the blue whale (Atlantic population) and the Beluga whale (St. Lawrence Estuary population), must be recorded in the relevant section of the logbook.

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24. Map of fishing areas



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25. Conditions of licence

To obtain *Conditions of licence,* fishers must log on to the National Online Licensing System. For National Online Licensing System assistance, please contact customer support by phone at 1-877-535-7307 or by email at fishing-peche@dfo-mpo.gc.ca.

Approved by:

Denis Gros-Louis
Gaspé–Lower St. Lawrence Maritime Area
Fisheries and Oceans Canada

For additional information

Please visit our website at the following address: http://www.qc.dfo-mpo.gc.ca/peches-fisheries/commerciale-commercial/index-eng.html.

Note: In case of discrepancies between the English and the French versions, the latter prevail

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Appendix

Sampling during exploratory fishery and surveys

The purpose of this monitoring is to assess the short-, medium- and long-term impacts of dredging on the sea cucumber and its habitat. The proposed protocol includes two components: (1) annual collection of commercial fishery data and (2) post-season inventories.

Data analysis is the responsibility of the industry. The data and the final report must be submitted to Fisheries and Oceans Canada by January 31 of each year at the latest.

1. Annual collection of exploratory fishery data

This component includes the annual collection of exploratory fishery data, collected by at-sea observers during each fishing trip where they are present on board. The following data will be compiled and submitted by the observers:

- Number of taxa, number of individuals, and total weight of bycatch caught before sorting;
- Length and individual weight measurements of a sea cucumber sample (N = 150 minimum per trip);
- Percentage (%) of broken or damaged sea cucumbers;
- Quantitative and qualitative data on the portion of organisms damaged during fishing;
- Duration of tow;
- Date and time (at the start and end of each tow);
- Geographic coordinates (at the start and end of each tow);

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2. **Post-season inventory**

A sea cucumber dredge in accordance with the harvesting plan will be used to conduct an annual post-season to survey the short, mid and long term impacts of the sea cucumber dredge. This survey will allow to compare the composition of epibenthic organisms (> 2 cm) and sea cucumber densities and sizes between the following sites:

- Unfished sites (Protected areas);
- High-intensity sea cucumber dredge fishing sites;
- Low-intensity sea cucumber dredge fishing sites;
- Sites with high-intensity dredge fishing in 2012–13 that are closed to fishing beginning in 2014 (closed sites).

In 2015, an objective was added by DFO – Resource management, to obtain data in each sub-areas (11). Therefore, a minimum of two tows per sub-area must be performed annually, i.e. tows of five minutes at a speed of about 2 knots, at a depth of 32 m. For each sub-areas, the following tows will be made:

- three tows per protected area (2 PA per area);
- one tow per sub-area in the sites with high-intensity dredge fishing;
- one tow per sub-area in the sites with low-intensity dredge fishing;
- three tows in each of the fixed stations with high-intensity dredge fishing in 2012–13 that are closed to fishing beginning in 2014 (closed sites) (three tows per station).:

Which give :

AREA B: Total of 25 tows, distributed as follows:

PA-3: 3 tows
PA-4: 3 tows

B-1: 1 tow in a site with high-intensity dredge fishing.
B-1: 1 tow in a site with low-intensity dredge fishing.

B-2: 1 tow in a site with high-intensity dredge fishing.
B-2: 1 tow in a site with low-intensity dredge fishing.

B-3: 1 tow in a site with high-intensity dredge fishing.
B-3: 1 tow in a site with low-intensity dredge fishing.

B-4: 1 tow in a site with high-intensity dredge fishing.
B-4: 1 tow in a site with low-intensity dredge fishing.

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B-5: 1 tow in a site with high-intensity dredge fishing.
B-5: 1 tow in a site with low-intensity dredge fishing.

Closed site 1: 3 tows
Closed site 2: 3 tows
Closed site 3: 3 tows

AREA C: Total of 27 tows, distributed as follows:

PA-5: 3 tows
PA-6: 3 tows

C-1: 1 tow in a site with high-intensity dredge fishing.
C-1: 1 tow in a site with low-intensity dredge fishing.

C-2: 1 tow in a site with high-intensity dredge fishing.
C-2: 1 tow in a site with low-intensity dredge fishing.

C-3: 1 tow in a site with high-intensity dredge fishing.
C-3: 1 tow in a site with low-intensity dredge fishing.faible

C-4: 1 tow in a site with high-intensity dredge fishing.
C-4: 1 tow in a site with low-intensity dredge fishing.

C-5: 1 tow in a site with high-intensity dredge fishing.
C-5: 1 tow in a site with low-intensity dredge fishing.

C-6: 1 tow in a site with high-intensity dredge fishing.
C-6: 1 tow in a site with low-intensity dredge fishing.

Closed site 4: 3 tows
Closed site 5: 3 tows
Closed site 6: 3 tows

The characterization of the stations (low and high-intensity of fishery) will be established using the exploratory fishing data of 2011 and of the most recent years.

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The following data will be collected for each dredge tow:

- Identification of all dredge catches, count and weight for each species caught (≥ 2 cm); For high levels of sea cucumber catches (>2 baskets), the total catch weight may be estimated based on the total pans caught[1];
- Weight of a full, unperforated basket (pan) of sea cucumbers and number of individuals for each tow;
- Individual lengths of a sea cucumber sample (N = 150 minimum/tow) and measured sample weight (weight of a minimum of 150 sea cucumbers), taken immediately after the catch is sorted;
- Length and sex of snow crab, lobster, giant scallop and finfish bycatches.
- Duration of tow;
- Vessel speed;
- Date and time (at the start and end of each tow);
- Geographic coordinates (at the start and end of each tow);
- GPS markers for each of the transects;
- Assessment of type of bottom by photography, based on what is prevalent in the tow (Silt (V), Sand (S), Rock < 5 cm (R1), Rock 5 to 20 cm (R5), Rocks > 20 cm (R20).

[1] If necessary, individual catches could be kept either frozen or in formol for future taxonomic validation.

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Conservation Harvesting Plan

ROCK CRAB – AREAS 12 AND 17
GASPE – LOWER ST. LAWRENCE
SEASON 2017

Approved August 3, 2017

1. Application

This *Conservation harvesting plan* applies to the Rock crab licence holder's fleet of the Gaspé fishing in a part of the crab fishing areas 12 and 17.

2. Fishing Areas

The sub-areas are defined as parts of crab fishing areas 12 and 17, as defined in the *Conditions of licence.*

In 2017, crab fishing will be prohibited at depths of more than 20 fathoms in fishing areas 12 and 17 of the crab fishery to avoid incidents with right whales in the North Atlantic in the Gulf of St. Lawrence -Laurent. The closed areas of crab fishing area 12 are indicated in the map shown in Figure 1.

Fishing for rock crab is prohibited in the following protected areas:

AP-1A: located inside sub-area 17B

AP-1B: located between sub-areas 17B and 17C1

AP-2: located between sub-areas 17C1 and 17C2

AP-3: located between sub-areas 17C2 and 12D1

AP-4: located between sub-areas 12D1 and 12D2

AP-5: located between sub-areas 12D3 and 12D4

AP-6: located inside sub-area 12D6

In addition, no new licences will be issued in order to respect the scientific advice recommending the use of sub-areas where there are no active licences as additional exclusion zones.

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Information regarding fishing areas is available on our website at: http://www.qc.dfo-mpo.qc.ca/peches-fisheries/commerciale-commercial/index-eng.html#carte.

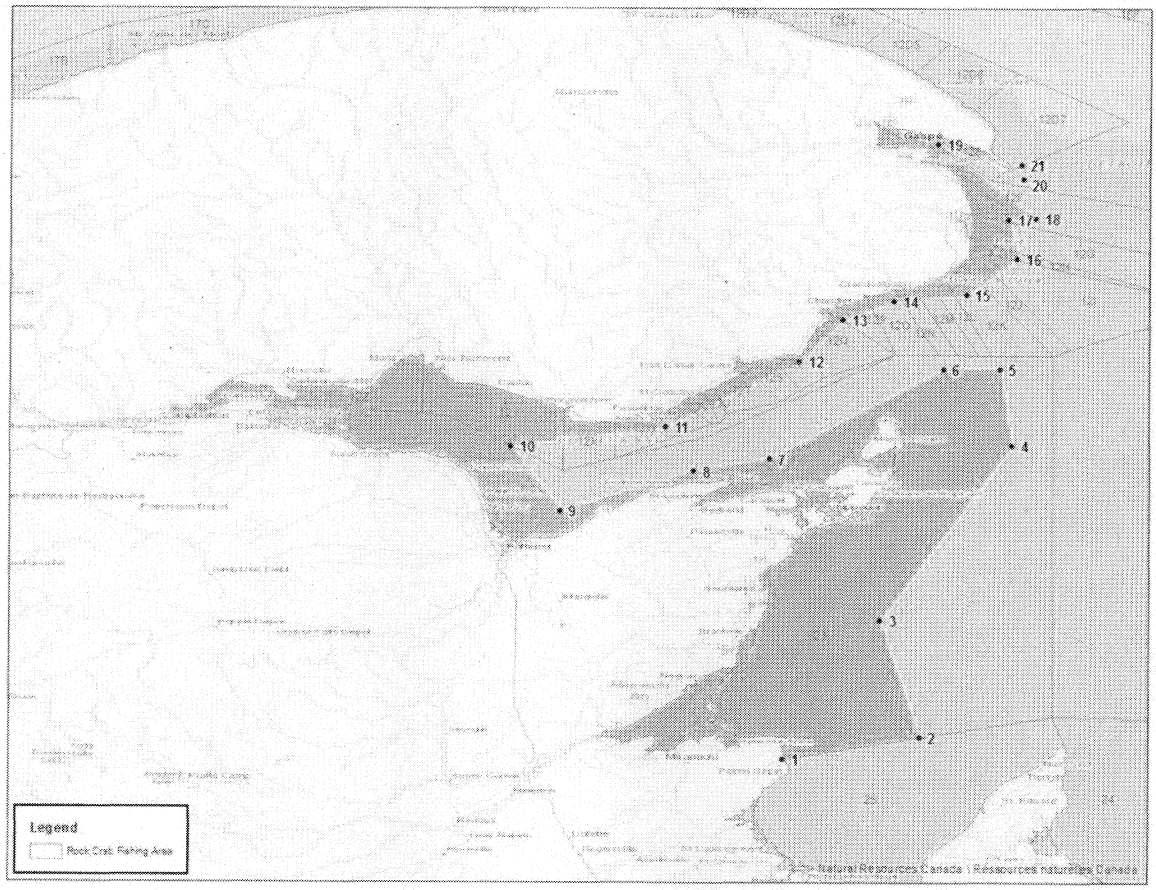


Figure 1. Map of closed areas of crab fishing zone 12

3. Fishing Season

The fishing season set out below represent the maximum fishing period, subject to, among other things, variation orders and specific closing periods. Therefore, fishery closure may be expected in particular when quotas have been reached, when the probability of exceeding them is high or if measures must be taken during the season to ensure the conservation of stocks.

Fishing period: From August 5 to September 29, 2017.

If the closing date change, it would be confirmed by a *Notice to Fish Harvesters* at least 72 hours before the anticipated closing.

Note that no hauling of traps is allowed before August 7, two days after the opening date.

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4. Allocations

Sub-areas 17C and 12D1 to 12D3:	75 t
Sub-areas 12D4 to 12D7:	148,5 t
Sub-areas 12E to 12O:	81,5 t
Sub-areas 12Q, 12W to 12X:	77,5 t
Sub-area 12Y:	61,5 t
Sub-area 12Z:	101,5 t

5. Management regimes

Sub-areas 17C, 12D1 to 12D3, 12F to 12Z: Competitive fishery regime.

Sub-areas 12D4 to 12D7: Individual Quota (IQ) regime

6. Fishing Gears

Licence holders are authorized to use the number of traps specified on their Licence.

Maximum number of traps:

Sub-areas 17C, 12D1 to 12D7, 12F to 12Q and 12X :

Maximum of 150 traps

Sub-areas 12W :

Maximum of 100 traps

Sub-areas 12Y and 12Z:

Maximum of 75 traps

Traps dimensions:

The minimum and maximum specifications for the traps are the following:

Mesh size:	Minimum 57 mm
Height:	Minimum 381 mm – Maximum 508 mm
Lower diameter:	Maximum 914 mm
Upper diameter:	Minimum 457 mm

Escape Vents:

It is prohibited to use for fishing purposes or to have aboard a vessel any rock crab trap that is not equipped with an escape mechanism composed of a minimum of 4 circular

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vents of no less than 65 mm and the base of the openings installed at a distance, calculated from the bottom of the trap, that does not exceed 51 mm.

Tagging

All traps used for fishing must wear a single annual tag valid with a unique identification number.

Fish harvester must obtain their tags from suppliers approved by the Department of Fisheries and Oceans (DFO) whose list is available at the following address: http://www.dfo-mpo.gc.ca/fm-gp/sdc-cps/nir-nei/tags-supplier-region-eng.htm.

Gears haul

It is prohibited to haul and bait the traps more than once a day.

It is the responsibility of fish harvester to up their gear at least every 72 hours.

7. Minimum size and release of rock crab

Minimum size: 102 mm

All male rock crab with a carapace width under 102 mm and all female rock crab (of any size) must be returned to the water immediately.

8. Hail prior to Departure

Not applicable.

9. At-sea Observers

Not applicable.

10. Hail in

It is mandatory to hail in to a local dockside monitoring company prior to landing.

11. Combined Form

Fishers must acquire their booklet of Combined Forms from a prequalified supplier, identified by DFO, whose list is available at the following address: http://www.dfo-mpo.gc.ca/fm-gp/sdc-cps/nir-nei/log-suppliers-eng.htm

The logbook section of the Combined Form must be completed at the end of each fishing day. This form must be sent to DFO at the latest within 7 days following the landing.

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12. Bycatch protocol

Incidental catches of toad crab can be retained.

Any other incidental catches must be returned to the water immediately.

Incidental catches of lobster must be counted, documented in the logbook and immediately released.

When releasing a live fish, the licence holder/operator must immediately return it to the water where it was caught in a manner that causes the least possible harm to the fish.

13. Vessel monitoring system (VMS)

Not applicable.

14. Vessel

Fish harvester may use a boat with a length less than 15.24 m.

15. Quota reconciliation

In compliance with the *Notice to Fish Harvesters* issued on July 15, 2013, DFO is applying the quota reconciliation in the rock crab fishery of the Gaspé since the 2013 season. Thus, any overharvest of a quota in one year, on an IQ or in a competitive fishery, will be deducted from the quota established during the following fishing season. For example, overharvest of quotas in a fishing management year will be deducted on a one-to-one basis from the licence holder quota or fleet level the next year.

Quota reconciliation facilitates the management of all fisheries and promotes the observance of harvest limits. Quota reconciliation helps achieve the conservation objectives for the resource, ensures that overruns by a fleet/harvester do not affect the others, and provides industry with an increased responsibility in meeting conservation objectives.

For the under individual quota fishery, it is the responsibility of fishers to follow their quotas to ensure that catches taken in the course of their fishing operations comply with the quotas allocated to them. The fishers will be notified of the reconciliation of their individual quota by means of an information note attached to their *Conditions of licence*.

16. Other Management Measures

Simultaneous fishing
It his prohibited to fish simultaneously for rock crab and other species that are fished using traps, such as whelk and sea urchin.

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17. *Species At Risk Act*

Pursuant to the *Species at Risk Act* (SARA), no person shall kill, harm, harass, capture, take, possess, collect, buy, sell or trade an individual or any part or derivate of a wildlife species designated as extirpated, endangered or threatened.

At the time this *Conservation harvesting plan* is promulgated, the Gulf of St.-Lawrence and the Atlantic species targeted by these measures are the following ones: Spotted wolffish, Northern wolffish, Leatherback Turtle and Striped Bass (St. Lawrence Estuary population). New species could be added in the course of the year.

All by-catch of species identified above must be returned to the water and released in the exact capture location and, if the fish is still alive, in a manner that causes it the least harm. In addition, information regarding interactions with species at risk, including species mentioned above as well as the North Atlantic Right Whale, the Blue Whale (Atlantic population) and the Beluga Whale (St. Lawrence Estuary population) must be recorded in the Species at risk section of the logbook.

18. Conditions of licence

To obtain *Conditions of licence*, fish harvester must access the National Online Licensing System. For National Online Licensing System assistance, please contact customer support by phone at 1-877-535-7307 or by email at fishing-peche@dfo-mpo.gc.ca.

Approved by:

Maryse Lemire
Regional Director, Fisheries Management
Fisheries and Oceans Canada

For additional information

Please visit our website at the following address: http://www.dfo-mpo.gc.ca/fm-gp/sdc-cps/index-fra.htm.

Note: In case of discrepancies between the English and the French versions, the latter prevails.

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Notice to Fish Harvesters

2017-2019 Conservation Harvesting Plan
Rock crab – Gaspé - Lower St. Lawrence Area

Gaspé – August 4, 2017

Fisheries and Oceans Canada – Québec Region announces the opening of the rock crab fishery in the Gaspé peninsula sub-areas on August 5, 2017.

Given the uncertainty about the status of Rock crab stocks, considering the decrease in landings and catch per unit effort observed in some sub-areas since 2013, the ministry could conduct a shorter-term stock assessment based on an analysis of the stock health indicators.

All management measures are available in the Conservation Harvesting Plan approved August 3, 2017. In the event that the indicators continue to show worrying signs, the ministry may quickly implement other measures during to ensure the conservation of stocks.

Decrease in Total Allowable Catches (TACs)
In 2017, TACs have been adjusted downward, in line with the Science Recommendation which, at the 2017 Stocks assessment, suggested that catches should be kept at the maximum as they were in 2015-2016 or 50% of the 2016 TAC in order to preserve the health of the stocks.

Reduction of fishing season
The fishing season was reduced by two weeks to eight weeks rather than ten, due to the decrease in the TAC.

Incidental Lobster catches
License holders / operators will be required to document any incidental catches of lobster in their logbooks. Specifications for how to document these catches are detailed in the license conditions.

Closed area for protection of right whales of the North Atlantic
In 2017, crab fishing will be prohibited at depths of more than 20 fathoms in fishing areas 12 and 17 of the crab fishery to avoid incidents with right whales in the North Atlantic in the Gulf of St. Lawrence -Laurent. The closed areas of crab fishing area 12 are indicated in the map shown the appendix A.

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License holders / operators are asked to report all observations of dead or injured marine mammals by calling a 1-866-567-6277 and to refrain from attempting to untangle any whales.

Conditions of licence

To obtain *Conditions of licence*, fishers must access the National Online Licensing System. For National Online Licensing System assistance, please contact customer support by phone at 1-877-535-7307 or by email at fishing-peche@dfo-mpo.gc.ca.

For additional information

You can obtain additional information on management measures and fishing areas on our website at the following address: http://www.qc.dfo-mpo.gc.ca/peches-fisheries/commercialecommercial/ index-eng.html, information on fishing requirements at the following address: http://www.dfo-mpo.gc.ca/fm-gp/sdccps/index-fra.htm and information regarding changes to service delivery at the following address: http://www.dfo-mpo.gc.ca/fm-gp/sdc-cps/index-eng.htm.

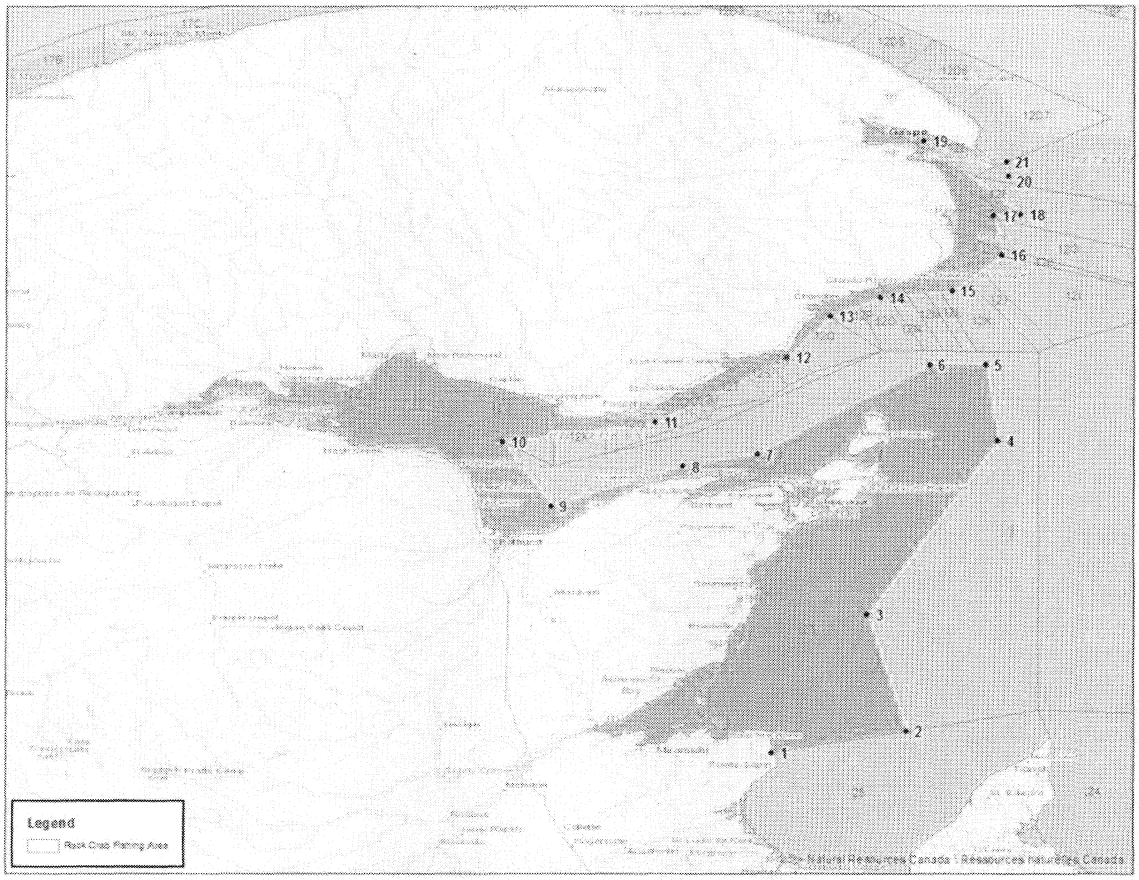
Resource management
Gaspé - Lower St. Lawrence Area
Fisheries and Oceans Canada
418-368-5559 / Toll free : 1-877-898-5559

Note: In case of discrepancies between the English and the French versions, the latter prevails.

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APPENDIX A

MAP OF CLOSED AREAS OF CRAB FISHING AREA 12



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Pêches et Océans Canada | Fisheries and Oceans Canada

Région du Québec – Gestion des pêches

Notice to Fish Harvesters

ANNOUNCEMENT OF MANAGEMENT MEASURES IN 2017
BLUEFIN TUNA – GULF – EX-SECTOR – LESS THAN 19.81 M FLEET

Quebec – August 11, 2017

Fisheries and Oceans Canada informs the Bluefin tuna Quebec licence holders of the management measures for the commercial fishery in the Gulf of St. Lawrence and Ex-sector for the 2017 fishing season.

The fishery will take place from August 18 to October 31, 2017. An allocation of 21.351 t is granted to the Quebec fleet for the Bluefin tuna directed fishery.

Based on an average weight of 282 kg (622 lb) for the Bluefin tunas landed in 2015 and 2016, 83 tags will be issued at the beginning of the fishing season. The eligibility list established by a random draw on July 26, 2013, will be used to issue additional tags after licence holders obtained their first tag. For the 2017 fishing season, no additional tags will be issued during the fishing season.

Licence holders do not have to register in order to participate. However, they must obtain their *licence condition* by accessing the National Online Licensing System (NOLS) and present themselves to their local Fisheries and Oceans office to obtain their tag(s).

Finally, as indicated in the *Conservation Harvesting Plan* updated on August 11 2017, cutting the tail or extracting flesh in order to determine the fat content is prohibited until the fish has been offloaded. However, only one incision made between the second dorsal fin and the tail is permitted for the sole purpose of bleeding the fish.

To consult all the management measures in force, please refer to the Conservation Harvesting Plan 2015-2018 updated on August 11, 2017.

For additional information, please refer to our website at the following address: http://www.qc.dfo-mpo.gc.ca/peches-fisheries/commerciale-commercial/index-eng.html

For more information, please contact your local office:
Magdalen Islands Area: 418-986-2095
Gaspe - Lower St. Lawrence Area: 1-877-898-5559

Canada

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Conservation Harvesting Plan

BLUEFIN TUNA – GULF – EX-SECTOR – QUEBEC FLEET
2015–2018 SEASONS

Approved August 17, 2015
Amended on August 11, 2017

1. Application

This *Conservation Harvesting Plan* applies to Bluefin tuna licence holders from the Quebec fleet using vessels of less than 19.81 m.

2. Fishing areas

Gulf: 4RST.

Ex-sector: 4Wd, 4VsW, 4X and 5.

3. Fishing season

The fishing season usually begins at the end of August and ends in October. The exact dates will be communicated through a *Notice to Fish Harvesters* on the Fisheries and Oceans Canada web site at the address specified at the end of this document.

4. Quota

The quota for the 2017 directed fishery is 21.351 t of which 19.683 t represent the initial 2017 quota and 1.688 t comes from the carry-forward of the uncaught quota in 2016.

The fleet is authorized to carry forward a maximum of 10% of its initial quota of the current year excluding all quota carried forward from a previous year or received from a transfer.

Any overrun will be deducted from the fleet's quota the following year.

The Quebec fleet is not authorized to catch more than 35 t ex-sector, including inter-fleet transfers, when applicable.

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5. Management regime

Competitive fishery management regime with distribution of the quota among participants through the number of issued tags.

6. Issuance of *Licence Conditions* and tags distribution

Licence holders do not have to register in order to participate in the Bluefin tuna fishery. Licence holders who intend to fish Bluefin tuna in a given year, in the Gulf of St. Lawrence or ex-sector, must pay 150 $ through the National Online Licensing System (NOLS) in order to obtain their tag(s). Once tags will be paid, licence holders will be able to obtain their *License Conditions*.

Licence holders will be required to report to their local Fisheries and Oceans Canada office before 4:00 pm on August 16 with their valid *Licence Conditions* in order to retrieve their tags and complete the control document.

Gaspe-Lower St. Lawrence licence holders must make an appointment to obtain their tag(s) by calling Fisheries and Oceans Canada office in Grande-Rivière at 418-385-3089 between 8:30 am and 4:00 pm.

Please note that no payment will be accepted at the offices of Fisheries and Oceans Canada.

7. Determination of the number of tags

In the past, additional tags could be issued during the fishing season. Because this method was not considered satisfactory, industry representatives requested a review of the process at the Regional Advisory Committee meeting held on February 27, 2017.

In 2017, the total number of tags issued will be determined based on the allocation available at the beginning of the fishing season plus 10% and the average weight of Bluefin tuna landed in the previous two years. No additional tags will be issue during the fishing season.

Some licence holders could obtain an additional tag before the opening of the fishing season after licence holders obtained their first tag depending on the quota for the current season and the eligibility list.

8. Eligibility list to obtain an additional tag

The members of the Bluefin Tuna Regional Advisory Committee held a meeting on January 27, 2015, where they recommended that the eligibility list for additional tags established by a random draw on July 26, 2013 (Appendix 1) be made permanent.

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The priority order of the eligibility list will remain the same in the case of a licence transfer. The new licence holder will retain the rank assigned to the previous licence holder during the draw.

9. Fishing gear

Licence holders are authorized to use angling gear, tended lines or electric harpoon.

A maximum of 4 lines is authorized of which no more than 2 lines may be tended.

Only one hook must be attached to each line.

10. Bleeding and Tail cut

When fishing, only an incision made between the second dorsal fin and the tail is permitted for the sole purpose of bleeding the fish. However, the removal of flesh from a Bluefin tuna or cutting the tail is not permitted until the fish has been offloaded and weighed by a dockside monitoring company.

11. Hail-out

Licence holders who depart for a fishing trip from a port in the Gaspe Peninsula must contact the Operations Centre of the Catch Certification Program by phone at 1-888-641-6464 no later than at 10 hours before each fishing trip and provide the information requested in the *Licence Conditions*.

Licence holders who depart for a fishing trip from a port in Prince-Edward-Island, New-Brunswick or Nova-Scotia must hail-out to a dockside monitoring company legally designated by Fisheries and Oceans Canada.

12. At-sea Observer

Gulf: Not applicable.

Ex-sector: The At-Sea Observer minimum coverage shall be no less than that of the fishing area where the fishing expedition occurs.

13. Dockside monitoring

Before the beginning of a fishing trip, licence holders must have an agreement with a dockside monitoring company legally designated by Fisheries and Oceans Canada.

Hail-in is required before arrival at the dock.

Dockside monitoring is mandatory for 100% of landings.

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Landings in the Gaspe Peninsula must take place at one of the designated ports identified in the *Designated Dockside Monitoring Ports* list available on the Department web site at: http://www.qc.dfo-mpo.gc.ca/peches-fisheries/surveillance/port-eng.html.

14. *Logbook / Combined Form*

A *Logbook* JB-TR-01 or a *Combined Form* FC-TR-02 must be completed by the licence holder for each fishing trip, regardless of whether he lands any Bluefin tuna, and submitted if required to the dockside observer or to any other person designated by Fisheries and Oceans Canada, without exception and in sequential order or forwarded to his Fisheries and Oceans area office without exception and in sequential order.

15. Bluefin Tuna Catch Document and electronic Bluefin Catch Document system

In addition to the *Logbook* or the *Combined Form*, a *Bluefin Tuna Catch Document* with the current year coding (BFTCD-CAN1X XXXX) must be filled out by the licence holder upon arrival to port for each trip where Bluefin tuna is landed. The dockside observer will check the catch document when the landed Bluefin tuna is weighed.

If the licence holder decides to sell his catch directly onto the retail market (i.e. restaurant), the licence holder must also enter the required information on the "electronic Bluefin tuna catch documentation" (EBCD) system monitoring of Bluefin tuna catches.

16. Electronic Monitoring System (EMS)

Starting in 2017 fishing season, an Electronic Monitoring System (EMS) capable of recording continuous video or photos of all fishing activities may be installed on board a fishing vessel, upon the request of a fishery officer.

Licence holders must provide qualified installers identified by a Fishery Officer, access to the fishing vessel for the installation, removal and maintenance of the EMS, as well as for the installation or retrieval of the memory card/hard drive from the EMS.

Before and while fishing, licence holders must ensure that the cameras lens is kept clean so the quality of the video or pictures is not degraded.

17. Vessel

Vessels with an overall length less than 19.81 m may be used.

Lease of a vessel registered outside of the Quebec Region is not authorized. Licence holders from the Quebec Region are authorized to use a vessel registered with Fisheries and Oceans Canada, Quebec Region, and linked to a commercial fishing licence.

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18. Partnership (buddy-up)

Partnership agreements for up to three (3) licences on the same vessel are authorized for the Gulf fishery. All participants in a partnership agreement must hold at least one valid tag at the time the agreement is made.

Prior to departure for a fishing trip, only one hail-out should be made for all licence holders participating in a partnership agreement.

19. Tag transfer

Tag transfer or sale is prohibited.

20. Inter fleet transfer

The inter-fleet transfer procedure remains the same as in previous years. Only the identified fleet representatives may request a transfer. These transfers will be approved by the Atlantic Large Pelagics Advisory Committee chair within 4 business days. The representative of the Quebec fleet is Mr. Michael Taker.

21. Species at Risk Act

Pursuant to the *Species at Risk Act* (SARA), no person shall kill, harm, harass, capture, take, possess, collect, buy, sell or trade an individual or any part or derivate of a wildlife species designated as extirpated, endangered or threatened.

At the time this management plan is promulgated, the Gulf of St. Lawrence and Atlantic species targeted by these measures are the following: Spotted Wolffish, Northern Wolffish, Leatherback Turtle, and Striped Bass (St. Lawrence Estuary population). New species may be added over the course of the year.

All bycatches of species identified above must be returned to the water and released in the exact capture location and, if the fish is still alive, with as little harm as possible. In addition, information regarding interactions with species at risk, including the species mentioned above as well as the North Atlantic Right Whale, the Blue Whale (Atlantic population) and the Beluga Whale (St. Lawrence Estuary population) must be recorded in the Species at Risk section of the Logbook.

22. Licence Conditions

To obtain their *Licence Conditions*, licence holders must access the National Online Licensing System (NOLS). For NOLS assistance, please contact customer support by phone at 1-877-535-7307 or by email at fishing-peche@dfo-mpo.gc.ca.

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23. Posting of *Notices to Fish Harvesters*

Notices to Fish Harvesters are available at the following web site address: http://www.qc.dfo-mpo.gc.ca/peches-fisheries/commerciale-commercial/index-eng.html.

For questions regarding this CHP

Please contact your area office.

Magdalen Islands: 418-986-2095
Gaspé–Lower St. Lawrence: 1-877-898-5559

Approved by:

Maryse Lemire
Regional Director, Fisheries Management
Fisheries and Oceans Canada
Quebec Region

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Appendix 1

Eligibility list - Draw held July 26, 2013 (see the Original on page 8).

Rank Additional tag	Name	Rank Additional tag	Name
1			
2			
3			
4			
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6			
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Le 26 juillet 2013 à 14 H 00 - Bureau du MPO
Nous soussignés certifions que les noms de l'ensemble des détenteurs de permis de thon rouge inscrits sur la liste pour le tirage au sort ont été vérifiés et considérés pour le présent tirage au sort

La liste du tirage au sort suivante représente les personnes choisies selon l'ordre numérique. Cette liste sera valide pour 2013 et 2014 selon le processus établi dans le PPAC 2013 2014

1	[redacted]	27	[redacted]
2		28	
3		29	
4		30	
5		31	
6		32	
7		33	
8		34	
9		35	
10		36	
11		37	
12		38	
13		39	
14		40	
15		41	
16		42	
17		43	
18		44	
19		45	
20		46	
21		47	
22		48	
23		49	
24		50	
25		51	
26		52	
		53	

Valérie Leblanc
Témoin

Témoin

MPO

Représentants de l'industrie (par conférence téléphonique)

[redacted]

Canada

Pages 3800 to / à 3805

are not relevant

sont non pertinentes

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Dunn, Patricia

From: Wentzell, Doug
Sent: August-11-17 9:51 AM
To: Valkenier, Mary-Ellen
Subject: INFO: Mackerel TAC

Hi Mev,

The Mackerel TAC will likely be announced later today. A few key points to summarize for you:

- The 2017 Total Allowable Catch for the commercial fishery will be set at 10,000 tonnes under a one-year management plan.
- Industry views are that the overall biomass is significantly larger than the science would indicate based on what they experienced in the 2016 fishery.
- Having said that, the 2017 TAC does represent a 2,000 t increase over last year This increase recognizes both the projected increases in the biomass over the coming year and the commitment to address unreported landings in the fishery.
- The Department undertook a new and detailed stock assessment for Atlantic mackerel this spring. This new assessment included increased effort by science experts including additional monitoring and interaction with harvesters to improve the reliability and data included in the assessment.
- This new assessment was discussed with members of the Atlantic Mackerel Advisory Committee (AMAC) on March 30, 2017 and input from stakeholders played an important role in the Department's TAC decision.
- While the science assessment has shown some signs of slight improvement in the stock, the stock assessment indicates that the stock remains in the critical zone under DFO's Precautionary Approach framework.
- Following discussion with AMAC increased reporting has been instituted including the introduction of 100% hail of catch with 25% dockside monitoring in the Gulf region. This new system provides more real-time harvest information and it should result in less undeclared catch.
- The Department has established a one-year TAC in line with the industry request to revisit the harvest level at the end of the 2017 fishery.

Doug

Doug Wentzell
Regional Director, Fisheries Management
Fisheries and Oceans Canada | Government of Canada
Doug.Wentzell@dfo-mpo.gc.ca | Telephone: 902-426-9962 | Facsimile: 902-426-7967

Directeur régional, Gestion des pêches
Pêches et Océans Canada | Gouvernement du Canada
Doug.Wentzell@dfo-mpo.gc.ca | Téléphone: 902-426-9962 | Télécopieur: 902-426-7967

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Smith, Kathleen

From: Nielsen, Ingrid
Sent: August-14-17 11:46 AM
To: Gareau, Laura
Cc: Lavigne, Kevin; Girouard, Louise; Smith, Kathleen; Fagan, Ashley
Subject: FW: adjusted Mackerel lines

Hi Laura,
Pls see below re: Mackerel, our regional comms folks feedback at this time.

Ingrid

I checked with regional program -- while a negative reaction is anticipated, there has not yet been an influx of calls. There is an Atlantic Mackerel Advisory Committee (AMAC) teleconference on August 24; we should expect to hear feedback from industry at that time.

The FFAW has posted the following on their website this morning but no social media reaction is apparent.

DFO decision on mackerel quota ignores stakeholder position, further hurts fish harvesters

08/14/2017
FFAW-Unifor is shocked by DFO's decision to increase the Atlantic Mackerel TAC by a mere 2,000t following a very solid recommendation for more than three times the current TAC, a position supported by all stakeholders from Newfoundland and Labrador.

"There is an abundance of fish around the province, and given that the TAC was caught in a few days once the fish began to gather for migration, there was no reason not to accept the stakeholders' position. A conservative decision would be minimum 20,000 tons, and even that doesn't come close to the fully supported recommendation," said FFAW-Unifor President Keith Sullivan.

Meetings held earlier this year exposed flaws in the science process, leading to changes in the way scientific data for mackerel is collected. Stakeholders, including harvesters who see firsthand the fish on the water, strongly believe that the scientific estimated biomass is flawed and that last year's TAC was at a completely unacceptably low level. Knowledge brought forward at these meetings and the position of the province's stakeholders supported a significantly higher TAC this year.

4R harvester Allan Sheppard attended both the science and management meetings this year. "We put our observations forward in an objective manner including all of the fish we observed in 2016 and felt we got through, but now I feel that we were totally ignored on this one, it's more than frustrating," said Sheppard.

With a good sign of mackerel again this summer, NL harvesters know that they will be cut short. 3K harvester Randy Randell also attended the 2017 meetings. "The minster needs to reconsider this decision. This is going to be another unnecessary blow to many hurting harvesters just like last year and is not supported by the observations."

FFAW's staff scientist attended the initial Scientific Framework meeting in Rimouski, QC in January. A senior Staff Rep and two experienced harvesters attended the RAP back in Rimouski, QC in March, and an additional harvester attended the AMAC in Halifax in late March. "We invested heavily into this process knowing what happened in 2016 with lots of fish in the water and no quota needed to be corrected. Unfortunately, the experience and knowledge of harvesters was dismissed and that is unacceptable. This is one decision that needs to be reconsidered," concluded Sullivan.

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Mallet, Pierre

From: Cawthray, Jenness s.21(1)(b)
Sent: August-14-17 12:01 PM
To: Elliott, Isabelle; Mallet, Pierre
Cc: Gaudet, Mario; Lester, Brian
Subject: RE: mackerel Gulf licencing policy

Hi Isabelle,

[redacted] this will be discussed further through the rebuilding plan working group for mackerel which have not been established yet.
We have a meeting this afternoon with regional mackerel officers to discuss further.
Thanks!
Jenness

From: Elliott, Isabelle
Sent: August-14-17 10:57 AM
To: Cawthray, Jenness; Mallet, Pierre
Cc: Gaudet, Mario; Lester, Brian
Subject: RE: mackerel Gulf licencing policy

Jenness, for the purpose of the Gulf policy, [redacted]

Isabelle

From: Cawthray, Jenness
Sent: 2017–August-14 11:21 AM
To: Mallet, Pierre
Cc: Gaudet, Mario; Elliott, Isabelle; Lester, Brian
Subject: RE: mackerel Gulf licencing policy

Thank you Pierre! We will discuss generic lines that can be posted under management measures on the website and for Regional licencing policies. I have set up a meeting for 1:00 Ottawa time today.
Jenness

From: Mallet, Pierre
Sent: August-14-17 10:17 AM
To: Cawthray, Jenness
Cc: Gaudet, Mario; Elliott, Isabelle; Lester, Brian
Subject: mackerel Gulf licencing policy

Hi Jenness,
As discussed, here is the section on mackerel in the Gulf licencing policy.

Thanks

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29.12. Replacement licences for mackerel fixed gear gill net may only be issued to an Independent Core fish harvester or Aboriginal organizations who holds herring fixed gear gill net licence for a vessel less than 15.2m (50') and replacement handline licences may be issued to Independent Core fish harvesters or an Aboriginal organizations.

This section may help Brian on the exploratory purse seine licence.

In the Gulf Region, persons who held a mackerel exploratory purse seine licence in the previous year are eligible to renew the exploratory licence for the current year subject to a review at the regional level.

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Mallet, Pierre

From: Mallet, Pierre
Sent: August-14-17 2:49 PM
To: Waters, Christa; Rivierre, Antoine; Dunne, Erin
Subject: FW: mackerel Gulf licencing policy

From: Mallet, Pierre
Sent: August-14-17 11:17 AM
To: Cawthray, Jenness
Cc: Gaudet, Mario; Elliott, Isabelle; Lester, Brian
Subject: mackerel Gulf licencing policy

Hi Jenness,
As discussed, here is the section on mackerel in the Gulf licencing policy.

Thanks

29.12. Replacement licences for mackerel fixed gear gill net may only be issued to an Independent Core fish harvester or Aboriginal organizations who holds herring fixed gear gill net licence for a vessel less than 15.2m (50') and replacement handline licences may be issued to Independent Core fish harvesters or an Aboriginal organizations.

This section may help Brian on the exploratory purse seine licence.

In the Gulf Region, persons who held a mackerel exploratory purse seine licence in the previous year are eligible to renew the exploratory licence for the current year subject to a review at the regional level.

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s.19(1)

Thomas, Tashina

From: Mallet, Pierre
Sent: August-14-17 10:40 AM
To: Cawthray, Jenness
Cc: Lester, Brian; Elliott, Isabelle; Gaudet, Mario; Thomas, Tashina
Subject: FW: Atlantic Mackerel
Attachments: U 2017-045-00376 Associate DM Approved.pdf; ML_Mackerel_TAC.DOCX

Importance: High

Hi Jenness,
The freeze on mackerel licences in the recommendations, licencing policy is asking for how long this freeze will be in effect to determine if a policy amendment need to be made.

Thanks

From: Mallet, Pierre
Sent: August-14-17 10:28 AM
To: Gaudet, Mario
Cc: Thomas, Tashina; Elliott, Isabelle
Subject: FW: Atlantic Mackerel
Importance: High

Allo Mario,

Dans la recommandation on dit qu'on émet plus de permis de maquereau. Faut avertir licencing de ceci. SVP envoyé un courriel aux bureaux de secteur et licencing Moncton.

merci

From: Cawthray, Jenness
Sent: July-27-17 11:22 AM
To: Rivierre, Antoine; Dunne, Erin; Waters, Christa; Mallet, Pierre; Gaudet, Mario; Marentette, Julie
Cc: Fagan, Ashley; Beamish, Kayla
Subject: FW: Atlantic Mackerel
Importance: High

Hi Everyone,
A heads-up that the memo should be signed soon. For your information, I have also attached the DRAFT media lines.
[redacted] can someone provide some intel on how the announcement works for this fishery? Is there a notice to fish harvesters, posting on the website??
Thanks!
Jenness

From: Burns, Adam
Sent: July-27-17 9:46 AM
To: Cawthray, Jenness

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Cc: Gilchrist, Brett; Buie, Jennifer
Subject: FW: Atlantic Mackerel

FYI, please work with comms.

From: Trudeau, Miriam
Sent: July 26, 2017 4:59 PM
To: Burns, Adam <Adam.Burns@dfo-mpo.gc.ca>; Lapointe, Sylvie <Sylvie.Lapointe@dfo-mpo.gc.ca>; Hubley , Marian <Marian.Hubley@dfo-mpo.gc.ca>; McPherson, Arran <Arran.McPherson@dfo-mpo.gc.ca>
Cc: French, Christopher <Christopher.French@dfo-mpo.gc.ca>; White, Andrea <Andrea.White@dfo-mpo.gc.ca>; Quinn, Caroline <Caroline.Quinn@dfo-mpo.gc.ca>; Butcher, Ashley <Ashley.Butcher@dfo-mpo.gc.ca>; Hopkins, Lillian <Lillian.Hopkins@dfo-mpo.gc.ca>; Malko, Carol <Carol.Malko@dfo-mpo.gc.ca>; Patrick, Lindsey <Lindsey.Patrick@dfo-mpo.gc.ca>
Subject: Atlantic Mackerel

Hello:

MINO has indicated that the Minister will be signing this docket. Could the Department be prepared with lines regarding management measures and science in case there are any concerns/questions?

I do not yet have the physical signed docket but MINO wanted to flag this information urgently. I have attached an electronic copy of the docket that was signed by the Associate and went into MINO.

Thanks,

AB

Miriam Trudeau
A/Director, Departmental Liaison
Directrice / intérimaire, Liaison ministériel

Fisheries and Oceans Canada | Pêches et Océans Canada
200 Kent Street | 200, rue Kent | 15N114
Ottawa, Canada K1A 0E6
(613) 947-4557| miriam.trudeau@dfo-mpo.gc.ca

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DRAFT

MEDIA LINES

Atlantic Mackerel Total Allowable Catch 2017

Issue

On May XX (TBC), Fisheries and Oceans Canada (DFO) will announce the 2017 Total Allowable Catch (TAC) decision for the Atlantic Mackerel fishery. The TAC for the commercial catch in 2017 will be set at 10,000 tonnes, which is an increase from the 2016 TAC of 8,000 tonnes. Given increased reporting requirements it is anticipated that undeclared/unreported catches will be significantly reduced this year. The department can expect media calls on the decision, as industry's expectations were for a significant TAC increase, however their request was not supported by the science advice (which the Department has followed). We would expect that there will also be negative reaction from the Ecology Action Center and some Indigenous groups that suggested a reduced harvest level given the stock is assessed to be in the critical zone.

The Atlantic Mackerel Advisory Committee meeting took place on March 30 in Halifax, Nova Scotia. DFO chaired the meeting and upwards of 60 stakeholders, including Indigenous groups, harvesters, processors, environmental non-government organizations, and the four Atlantic Provinces and Quebec.

Media lines

- The 2017 Total Allowable Catch for the commercial fishery is set at 10,000 tonnes under a one-year management plan. This increase recognizes both the projected increases in the biomass over the coming year and the commitment to address unreported landings in the fishery.

- Fisheries management decisions for all stocks, including Atlantic mackerel include consideration of the best available science as well as input from Indigenous groups, harvesters, processors, environmental non-government organizations and the provinces.

- The Department undertook a new and detailed stock assessment for Atlantic mackerel this spring. This new assessment was discussed with members of the Atlantic Mackerel Advisory Committee on March 30 and input from stakeholders played an important role in the department's TAC decision.

- While the science assessment has shown some preliminary signs of rebuilding, the stock assessment indicates that the stock remains in the critical zone under DFO's Precautionary Approach framework.

- The established harvest level allows for a greater than 75% probability that the stock biomass will continue to increase at the established harvest level. This corresponds to a high probability of growth and reflects the Department's commitment to the

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DRAFT

Precautionary Approach. Specifically, with commercial TAC of 10,000t [redacted] taking into account improved catch monitoring in the fishery.

- Fisheries and Oceans Canada is committed to balancing economic opportunity and financial stability of the Atlantic mackerel fishery while promoting the sustainability of this resource.

- The Department has established a one-year TAC in line with the industry request to revisit the harvests level at the end of the 2017 fishery.

If pressed:

- Management decisions for this fishery consider long-term conservation and sustainability of the stock and take into account the best available science, the Department's management plan, and views expressed by stakeholders during consultations with industry.

- While industry supported and agreed with the general trends of stock rebuilding indicated in the stock assessment, their views are that the overall biomass is significantly larger than the science would indicate based on what they experienced in the 2016 fishery.

- The Department has initiated a DFO/industry rebuilding plan working group for this stock that will meet over the coming year to develop a plan for consideration by the Atlantic Mackerel Advisory Committee to support rebuiliding the stock into the Healthy Zone of the Precautionary Approach Framework

If pressed on judicial review:

- The Department will not comment on this matter, as it currently before the Court.

Spokesperson: Adam Burns

Program Contact: Brian Lester, Adam Burns

Communications Contact: Kayla Beamish

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Cawthray, Jenness

From: Beamish, Kayla
Sent: August-14-17 2:36 PM
To: Lapointe, Sylvie
Cc: French, Christopher; Saindon, Carole; Chow, Vance; Malikian, Janine; NCR Media RCN (DFO/MPO); Cawthray, Jenness; Fagan, Ashley; Girouard, Louise; Nielsen, Ingrid
Subject: Media Call (urgent) - Mackerel - CBC Radio PEI

Importance: High

Hi Sylvie,

Media call below for your approval. The majority of the lines are fully approved, with the exception of the final bullet which has been revised from the original for simplicity.

Apologies for the tight deadline – due back to reporter within the hour.

Thanks,
Kayla

ISSUE: Krystalle Ramlakhan, reporter for CBC Radio in P.E.I. is asking:

The Ecology Action Centre (in Halifax) has been critical of DFO's increasing the TAC for mackerel for 2017 to 10,000 tonnes. They believe it should have been left at 8,000 tonnes, because the last stock assessment this year shows there hasn't been enough rebuilding to get the stock out of the critical zone:

Q1. How does DFO respond to this criticism?
Q2. *Are there specific reasons why the TAC has been changed?*

DEADLINE: 3:30 pm Eastern, if at all possible

APPROVED BY:
Robert Day, A/DG

PROPOSED RESPONSE: *written response*

(pre-approved)

Q1. How does DFO respond to this criticism?

- The 2017 Total Allowable Catch for the commercial fishery is set at 10,000 tonnes under a one-year management plan. This increase recognizes both the projected increases in the biomass over the coming year and the commitment to address unreported landings in the fishery.

- Management decisions for this fishery consider long-term conservation and sustainability of the stock and take into account the best available science, the Department's management plan, and views expressed by stakeholders during consultations.

- Industry views are that the overall biomass is significantly larger than the science would indicate based on what they experienced in the 2016 fishery.

- The Department has initiated a DFO and industry rebuilding plan working group for this stock that will meet over the coming year to develop a plan for consideration by the Atlantic Mackerel Advisory Committee. This will support rebuilding the stock into the Healthy Zone of the Precautionary Approach Framework

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Q2. *Are there specific reasons why the TAC has been changed?*

- Fisheries management decisions for all stocks, including Atlantic mackerel include consideration of the best available science as well as input from Indigenous groups, harvesters, processors, environmental non-government organizations and the provinces.

- The Department undertook a new and detailed stock assessment for Atlantic mackerel this spring. This new assessment included increased effort by science experts including additional monitoring and interaction with harvesters to improve the reliability and data included in the assessment.

- Following discussion with the Atlantic Mackerel Advisory Committee (AMAC) on March 30, 2017, increased reporting has been instituted including the introduction of 100% hail of catch with 25% dockside monitoring in the Gulf region. This new system provides more real-time harvest information and it should result in less undeclared catch.

- ***(revised – not fully approved)*** The established harvest level allows for a greater than 75% chance that the stock biomass will grow over the next two years. This corresponds to a high probability of growth. The harvest level consists of a commercial TAC of 10,000 tonnes and estimates of undeclared landings from other sources (e.g. bait and recreational fishery).

From: Krystalle Ramlakhan [mailto:krystalle.ramlakhan@cbc.ca]
Sent: 2017–August-14 10:17 AM
To: Petersen, Krista; Hachey, Steve A
Subject: CBC PEI News request today on mackerel

Hi Krista and Steve,

I'm following on a request my colleague Laura Chapin put in on Friday. I'm just taking it over for her as she's on holiday away from the office now.

I'm emailing you both, hoping one of you might have the time to check into this for me. The Ecology Action Centre is critical of DFO increasing the TAC for mackerel for 2017 to 10,000 tonnes. They believe it should have been left at 8,000 tonnes, because the last stock assessment this year shows there hasn't been enough rebuilding to get the stock out of the critical zone.

My cell is 902-626-9750. Thanks!

--
Krystalle Ramlakhan
Videojournalist/online/t.v./radio
CBC Prince Edward Island
cell: (902) 626-9750

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Bruxer, Shelby

From: Courchesne, Sandra
Sent: August-14-17 1:50 PM
To: Jenkins, Randy
Subject: FW: Media Call (time sensitive) - Mackerel - CBC Radio PEI

fyi

From: Chow, Vance
Sent: August-14-17 1:49 PM
To: Beamish, Kayla; Courchesne, Sandra; Cawthray, Jenness
Subject: RE: Media Call (time sensitive) - Mackerel - CBC Radio PEI

FYI – guessing you may already have seen this, but FFAW has issued a statement regarding this issue:

http://ffaw.nf.ca/en/news-and-events/news/dfo-decision-mackerel-quota-ignores-stakeholder-position-further-hurts-fish#.WZHeBfnyupq

From: Beamish, Kayla
Sent: August-14-17 12:14 PM
To: Courchesne, Sandra; Cawthray, Jenness
Cc: Chow, Vance
Subject: RE: Media Call (time sensitive) - Mackerel - CBC Radio PEI

Thanks ladies. Just a reminder this one is a tight turn around (unfortunately) so we'll need to be speedy! ☺

From: Courchesne, Sandra
Sent: August 14, 2017 12:10 PM
To: Beamish, Kayla; Cawthray, Jenness
Cc: Chow, Vance
Subject: RE: Media Call (time sensitive) - Mackerel - CBC Radio PEI

I suspect that line comes from the most recent science advice. Jenness can you send to your science contacts and ask them to simplify?

Thanks
Sandra

From: Beamish, Kayla
Sent: August-14-17 11:49 AM
To: Courchesne, Sandra; Cawthray, Jenness
Cc: Chow, Vance
Subject: Media Call (time sensitive) - Mackerel - CBC Radio PEI
Importance: High

Hi Sandra and Jenness,

Document Released Under the Access to Information Act / Document divulgué en vertu de la Loi sur l'accès à l'information.

We received a media call on the mackerel decision. I pulled some lines from the approved batch that I think we can use. The highlighted one still makes my brain hurt though so wondering if there's any way to simplify? The response would be used for radio, thinking we'd need something that's simple/easy to understand. Besides that, looking for your input on this before I move up the chain.

Thanks!
Kayla

ISSUE: Krystalle Ramlakhan, reporter for CBC Radio in P.E.I. is asking:

The Ecology Action Centre (in Halifax) has been critical of DFO's increasing the TAC for mackerel for 2017 to 10,000 tonnes. They believe it should have been left at 8,000 tonnes, because the last stock assessment this year shows there hasn't been enough rebuilding to get the stock out of the critical zone:

Q1. How does DFO respond to this criticism?
Q2. *Are there specific reasons why the TAC has been changed?*

DEADLINE: 3:30 pm Eastern, if at all possible

APPROVED BY: TBC

PROPOSED RESPONSE: *written response*

(pre-approved)

Q1. How does DFO respond to this criticism?

- The 2017 Total Allowable Catch for the commercial fishery is set at 10,000 tonnes under a one-year management plan. This increase recognizes both the projected increases in the biomass over the coming year and the commitment to address unreported landings in the fishery.

- Management decisions for this fishery consider long-term conservation and sustainability of the stock and take into account the best available science, the Department's management plan, and views expressed by stakeholders during consultations.

- Industry views are that the overall biomass is significantly larger than the science would indicate based on what they experienced in the 2016 fishery.

- The Department has initiated a DFO and industry rebuilding plan working group for this stock that will meet over the coming year to develop a plan for consideration by the Atlantic Mackerel Advisory Committee. This will support rebuilding the stock into the Healthy Zone of the Precautionary Approach Framework

Q2. *Are there specific reasons why the TAC has been changed?*

- Fisheries management decisions for all stocks, including Atlantic mackerel include consideration of the best available science as well as input from Indigenous groups, harvesters, processors, environmental non-government organizations and the provinces.

- The Department undertook a new and detailed stock assessment for Atlantic mackerel this spring. This new assessment included increased effort by science experts including additional monitoring and interaction with harvesters to improve the reliability and data included in the assessment.

- Following discussion with the Atlantic Mackerel Advisory Committee (AMAC) on March 30, 2017, increased reporting has been instituted including the introduction of 100% hail of catch with 25% dockside monitoring in the Gulf region. This new system provides more real-time harvest information and it should result in less undeclared catch.

- The established harvest level allows for a greater than 75% probability that the stock biomass will continue to increase at the established harvest level. This corresponds to a high probability of growth and reflects the

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Department's commitment to the Precautionary Approach. With a commercial TAC of 10,000 tonnes and estimates of undeclared landings from other sources (e.g. bait and recreational fishery), there would be a greater than a 75% probability of the biomass increasing over the next two years.

From: Krystalle Ramlakhan [mailto:krystalle.ramlakhan@cbc.ca]
Sent: 2017–August-14 10:17 AM
To: Petersen, Krista; Hachey, Steve A
Subject: CBC PEI News request today on mackerel

Hi Krista and Steve,

I'm following on a request my colleague Laura Chapin put in on Friday. I'm just taking it over for her as she's on holiday away from the office now.

I'm emailing you both, hoping one of you might have the time to check into this for me. The Ecology Action Centre is critical of DFO increasing the TAC for mackerel for 2017 to 10,000 tonnes. They believe it should have been left at 8,000 tonnes, because the last stock assessment this year shows there hasn't been enough rebuilding to get the stock out of the critical zone.

My cell is 902-626-9750. Thanks!

--
Krystalle Ramlakhan
Videojournalist/online/t.v./radio
CBC Prince Edward Island
cell: (902) 626-9750

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Syntax error: Undefined mixin 'enable-ligatures'.
        on line 23 of /local/unifor_local_platform_production_ffaw/sites/all/themes/unifor_local_base/sass/print.scss, in `enable-ligatures'
        from line 23 of /local/unifor_local_platform_production_ffaw/sites/all/themes/unifor_local_base/sass/print.scss
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Search

DFO decision on mackerel quota ignores stakeholder position, further hurts fish harvesters

08/14/2017

FFAW-Unifor is shocked by DFO's decision to increase the Atlantic Mackerel TAC by a mere 2,000t following a very solid recommendation for more than three times the current TAC, a position supported by all stakeholders from Newfoundland and Labrador.

"There is an abundance of fish around the province, and given that the TAC was caught in a few days once the fish began to gather for migration, there was no reason not to accept the stakeholders' position. A conservative decision would be minimum 20,000 tons, and even that doesn't come close to the fully supported recommendation," said FFAW-Unifor President Keith Sullivan.

Meetings held earlier this year exposed flaws in the science process, leading to changes in the way scientific data for mackerel is collected. Stakeholders, including harvesters who see firsthand the fish on the water, strongly believe that the scientific estimated biomass is flawed and that last year's TAC was at a completely unacceptably low level. Knowledge brought forward at these meetings and the position of the province's stakeholders supported a significantly higher TAC this year.

4R harvester Allan Sheppard attended both the science and management meetings this year. "We put our observations forward in an objective manner including all of the fish we observed in 2016 and felt we got through, but now I feel that we were totally ignored on this one, it's more than frustrating," said Sheppard.

With a good sign of mackerel again this summer, NL harvesters know that they will be cut short. 3K harvester Randy Randell also attended the 2017 meetings. "The minster needs to reconsider this decision. This is going to be another unnecessary blow to many hurting harvesters just like last year and is not supported by the observations."

FFAW's staff scientist attended the initial Scientific Framework meeting in Rimouski, QC in January. A senior Staff Rep and two experienced harvesters attended the RAP back in Rimouski, QC in March, and an additional harvester attended the AMAC in Halifax in late March. "We invested heavily into this process knowing what happened in 2016 with lots of fish in the water and no quota needed to be corrected. Unfortunately, the experience and knowledge of harvesters was dismissed and that is unacceptable. This is one decision that needs to be reconsidered," concluded Sullivan.

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Patterson, Pauline

De:	Cawthray, Jenness
Envoyé:	August-15-17 1:20 PM
À:	Dunne, Erin; Waters, Christa; Mallet, Pierre; Gaudet, Mario; Rivierre, Antoine; Hiltz, Jennifer
Cc:	Courchesne, Sandra
Objet:	FW: 2017-045-00376 2017 Atlantic Mackerel Management Measures - signed memo
Pièces jointes:	Untitled.PDF

From: Quenneville, Josée
Sent: July-27-17 2:06 PM
To: Cawthray, Jenness
Subject: 2017-045-00376 2017 Atlantic Mackerel Management Measures

See attached a copy of the signed memo.

Josée

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are duplicates of
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pages 2979 to / à 2984

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Mallet, Pierre

From: Mallet, Pierre
Sent: August-15-17 12:47 PM
To: Cawthray, Jenness; Waters, Christa; Dunne, Erin; Gaudet, Mario; Rivierre, Antoine
Subject: RE: Mackerel licencing freeze

- For Gulf commercial, gear include gillnets, handline and mechanical device. For bait only three gillnets (50 fathoms max)

- A freeze on the issuance of new commercial mackerel licences is in effect for the 2017 mackerel fishery. Please contact your Region Office directly should you have any questions specific to licence. (do I include contact info by region?)
  Ok with that and ok to include contact for region

From: Cawthray, Jenness
Sent: August-15-17 12:14 PM
To: Waters, Christa; Dunne, Erin; Mallet, Pierre; Gaudet, Mario; Rivierre, Antoine
Subject: FW: Mackerel licencing freeze

In looking at the licence conditions for mackerel in NL, I see that it includes multiple gear types including hand line. I think we should ensure that there is consistency among the regions?? Would we exclude hand line in Maritimes but permit in another Region?

From: Dunne, Erin
Sent: August-15-17 10:01 AM
To: Cawthray, Jenness
Subject: RE: Mackerel licencing freeze

Licencing Freeze – no new mobile licences, fixed licences are available

Does the mackerel licence identifies which type of gear if being used? YES

Is there multiple gear permitted under a single licence? In some areas (West Coast) under certain circumstances a harvester can have fixed and mobile gear onboard as long as an observer is present.

Are there separate licences by gear type? Yes, fixed and mobile gear licences are issued separately

Sample licence for Mackerel attached -2017 Purse Seine for MFA 1 to 11; 2017 Fixed Gear MFA 1 to 11

Erin

From: Cawthray, Jenness
Sent: August-15-17 11:13 AM
To: Dunne, Erin; Rivierre, Antoine; Gaudet, Mario; Mallet, Pierre; Waters, Christa; Hiltz, Jennifer
Subject: Mackerel licencing freeze
Importance: High

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Hi All,

Can you review the following lines to include under management measures for the website and also in a notice to fish harvesters:

A freeze on the issuance of new commercial mackerel licences is in effect for the 2017 mackerel fishery. Please contact your Region Office directly should you have any questions specific to licence. (do I include contact info by region?)

A few questions:
Does the mackerel licence identifies which type of gear if being used? Is there multiple gear permitted under a single licence. Are there separate licences by gear type? Can you send me a sample licence for Mackerel.
I think it would be useful to have some common language to ensure that we are applying the freeze consistently. Are there other website links or documents (Regional licencing policy document) that are used in the Regions which would post information on this freeze.

Would appreciate your quick response on this.
Thank you!
Jenness

Jenness Cawthray
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Agent principal, Gestion des pêches et de l'aquaculture
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Government of Canada | Gouvernement du Canada